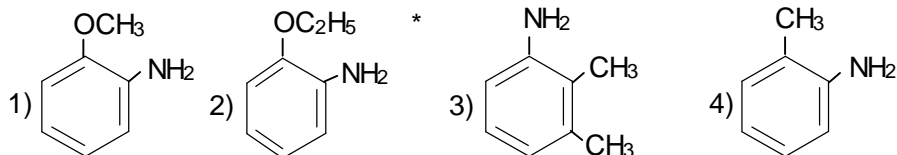
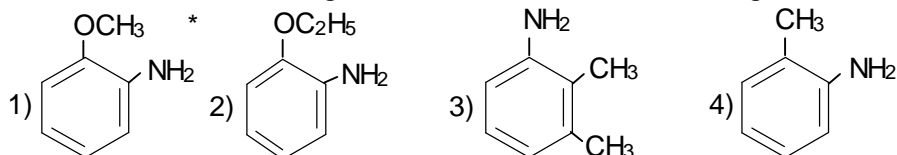


testebi organuli qimi aSi (II)

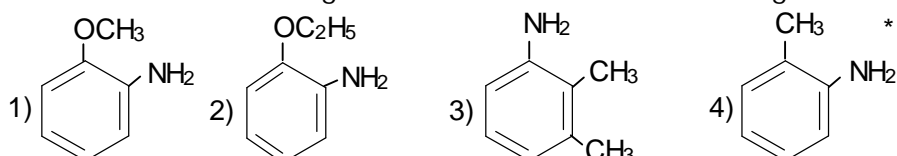
1. romeli formul iT gamoisaxeba fenetidinis aRnagoba?



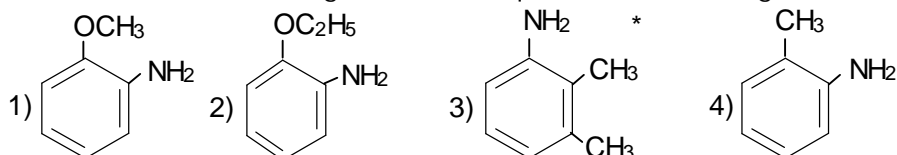
2. romeli formul iT gamoisaxeba anizidinis aRnagoba?



3. romeli formul iT gamoisaxeba toluidinis aRnagoba?



4. romeli formul iT gamoisaxeba qsilidinis aRnagoba?



5. romeli naerTi ar warmoiqmneba butan-1-aminze azotovanmJavas moqmedebi T?

1) 1-buteni; 2) butil nitriti; * 3) 2-buteni; 4) 2-ql orbutani.

6. acetoni tril ze l iTiumis al umohidridis moqmedebi T warmoiqmneba:

1) ZmarmJava; 2) eTanoli; 3) eTanali; 4) eTil amini. *

7. acetoni tril ze natriumis (eTanolis areSi) moqmedebi T warmoiqmneba:

1) ZmarmJava; 2) eTanoli; 3) eTanali; 4) eTil amini. *

8. acetamidze l iTiumis al umohidridis moqmedebi T warmoiqmneba:

1) ZmarmJava; 2) eTanoli; 3) eTanali; 4) eTil amini. *

9. acetamidze natriumis (eTanolis areSi) moqmedebi T warmoiqmneba:

1) ZmarmJava; 2) eTanoli; 3) eTanali; 4) eTil amini. *

10. acetal dehid iT amiakis al kil irebis Sedegad aRmdgenebis (H₂, Pt) Tanaobisas mi iReba:

1) meTanoli; 2) eTil amini; * 3) meTil amini; 4) acetoni trili.

11. romeli naerTi T unda moxdes amiakis al kil ireba aRmdgenebis (H₂, Pt) Tanaobisas eTil aminis misaRebad?

1) meTanali iT; 2) eTanali iT; * 3) eTanoli iT; 4) eTanmJavaTi.

12. romeli naerTi T unda moxdes amiakis al kil ireba aRmdgenebis (H₂, Pt) Tanaobisas meTil aminis misaRebad?

1) meTanali iT; * 2) eTanali iT; 3) meTanoli iT; 4) meTanmJavaTi.

13. romeli naerTidan mi iReba tute areSi hal ogenebis moqmedebi T eTil amini?

1) CH₃-CONH₂; 2) CH₃-CH₂-CONH₂; 3) CH₃-C≡N; 4) CH₃-CH=NOH.

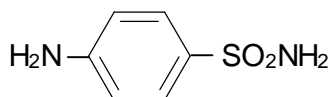
14. romeli naerTidan mi iReba tute areSi hal ogenebis moqmedebi T meTil amini?

- 1) $\text{CH}_3\text{-CONH}_2$; * 2) $\text{CH}_3\text{-CH}_2\text{-CONH}_2$; 3) $\text{CH}_3\text{-C}\equiv\text{N}$; 4) $\text{CH}_3\text{-CH=NOH}$.
15. romel i naerTidan miReba tute areSi hal ogenebis moqmedebi T eTil amini?
- 1) $\text{CH}_3\text{-CONH}_2$; 2) $\text{CH}_3\text{-CH}_2\text{-CONH}_2$; * 3) $\text{CH}_3\text{-C}\equiv\text{N}$; 4) $\text{CH}_3\text{-CH=NOH}$.
16. romel i naerTidan miReba tute areSi hal ogenebis moqmedebi T propil amini?
- 1) $\text{CH}_3\text{-CONH}_2$; 2) $\text{CH}_3\text{-CH}_2\text{-CONH}_2$; * 3) $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CONH}_2$; * 4) $\text{CH}_3\text{-CH=NOH}$.
17. romel i iTons iyeneben tute areSi nitronaerTebis aRsadgenad?
- 1) Fe; 2) Sn; 3) Zn; * 4) Ca.
18. romel temperaturaze (gradusebSi) mimdinareobs ufro advil ad al ifaturi aminebis acil ireba?
- 1) 10; * 2) 30; 3) 60; 4) 100.
19. zininma nitrobenzol is aRsadgenad gamoiyena:
- 1) H_2 ; 2) NH_3 ; 3) NH_4SH ; 4) $(\text{NH}_4)_2\text{S}$. *
20. nitrobenzol idan romel i naerTis misaRebad gamoiyena zininma amoni umis sul fidi?
- 1) fenol is; 2) benzol is; 3) anil inis; * 4) benzomJavasi.
21. nitrobenzol idan anil inis misaRebad zininma gamoiyena amoni umis:
- 1) sul fiti; 2) sul fati; 3) sul fidi; * 4) hidrosul fiti.
22. romel i aminis aRmosaCenad SeiZl eba azotovanmJavas gamoyeneba?
- 1) difenil amini; * 2) anil ini; 3) trimeTil amini; 4) izopropil amini.
23. romel i aminis aRmosaCenad SeiZl eba azotovanmJavas gamoyeneba?
- 1) dimeTil amini; * 2) anil ini; 3) trimeTil amini; 4) izopropil amini.
24. anil inze gogirdmJavas moqmedebi T oTaxis temperaturaze miReba:
- 1) o-aminobenzosul fomJava; 2) m-aminobenzosul fomJava;
3) p-aminobenzosul fomJava; 4) arcerTi zemoT CamoTvl il i. *
25. organul naerTTa romel kl ass miekuTvneba anizidini?
- 1) nitronaerTebis; 2) aminebs; * 3) fenol ebs; 4) ketonebs.
26. organul naerTTa romel kl ass miekuTvneba tol uidini?
- 1) nitronaerTebis; 2) aminebs; * 3) fenol ebs; 4) ketonebs.
27. organul naerTTa romel kl ass miekuTvneba qsil idini?
- 1) nitronaerTebis; 2) aminebs; * 3) fenol ebs; 4) ketonebs.
28. organul naerTTa romel kl ass miekuTvneba fenetidini?
- 1) nitronaerTebis; 2) aminebs; * 3) fenol ebs; 4) ketonebs.
29. organul naerTTa romel kl ass miekuTvneba anil ini?
- 1) nitronaerTebis; 2) aminebs; * 3) fenol ebs; 4) ketonebs.
30. romel i naerTis nawarmia anizidini?
- 1) eToqsibenzol is; 2) benzol is;
3) meTil benzol is; 4) meToqsibenzol is. *
31. romel i naerTis nawarmia fenetidini?
- 1) eToqsibenzol is; * 2) benzol is;
3) meTil benzol is; 4) meToqsibenzol is.
32. romel i naerTis nawarmia anil ini?
- 1) eToqsibenzol is; 2) benzol is; *
3) meTil benzol is; 4) meToqsibenzol is.
33. romel i naerTis nawarmia qsil idini?
- 1) meTil benzol is; 2) dimeTil benzol is; *
3) eToqsibenzol is; 4) meToqsibenzol is.
34. romel i naerTis nawarmia tol uidini?
- 1) meTil benzol is; * 2) dimeTil benzol is;
3) eToqsibenzol is; 4) meToqsibenzol is.
35. romel i naerTi ar warmoiqmneba nitrobenzol is mJava areSi aRdgeni sas?
- 1) nitrozobenzol i; 2) azobenzol i;

- 3) fenil hidroqsil amini; * 4) anil ini.
36. oTaxis temperaturaze azotovanmJavaSTan ar reagirebs:
- 1) izobutil amini; 2) dietil amini; 3) anil ini; 4) trietil amini. *
37. uSual o al kil irebis meTodiT aminis miRebis reaqciaSi hal ogenal kanis didi siWarbisas warmoiqmneba:
- 1) pirvel adi amini; 2) meoreul i amini;
- 3) mesameul i amini; 4) meoTxeul i amoniumis maril i. *
38. gacxel ebisas tripropil aminis azotovanmJavaSTan urTierTqmedebi T miReba:
- 1) eTanol i; 2) propanol i; 3) propanal i; * 4) propanoni.
39. romel i naerTis aRmoCena SeiZl eba azotovanmJavaTi?
- 1) CH_3NH_2 ; 2) $(\text{CH}_3)_2\text{NH}$; * 3) $(\text{CH}_3)_3\text{N}$; 4) $\text{C}_6\text{H}_5\text{NH}_2$.
40. azotovanmJavaSTan romel i aminis gacxel ebisas xdeba deal kil ireba?
- 1) CH_3NH_2 ; 2) $(\text{C}_2\text{H}_5)_2\text{NH}$; 3) $(\text{C}_2\text{H}_5)_3\text{N}$; * 4) $\text{C}_2\text{H}_5\text{NH}_2$.
41. nitrobenzol is romel areSi aRdgenis as warmoiqmneba azoqsibenzol i?
- 1) mJava areSi; 2) tute areSi; * 3) neitral ur areSi; 4) nebismier areSi.
42. nitrozobenzol i warmoiqmneba nitrobenzol is aRdgenis as:
- 1) mxol od mJava areSi; 2) mxol od tute areSi; 3) rogorc mJava, ise tute areSi; *
- 4) nitrozobenzol i aRdgenis procesSi ar warmoiqmneba.
43. fenil hidroqsil amini warmoiqmneba nitrobenzol is aRdgenis as:
- 1) mxol od mJava areSi; 2) mxol od tute areSi; 3) rogorc mJava, ise tute areSi; *
- 4) fenil hidroqsil amini aRdgenis procesSi ar warmoiqmneba.
44. CamoTvl il i naerTebidan roml is miRebaa SesaZl ebel i oqsimis aRdgeni T?
- 1) $\text{C}_2\text{H}_5\text{NH}_2$; * 2) $(\text{C}_2\text{H}_5)_2\text{NH}$; 3) $(\text{C}_2\text{H}_5)_3\text{N}$; 4) yvel asi.
45. CamoTvl il i naerTebidan roml is miRebaa SesaZl ebel i nitril is aRdgeni T?
- 1) $\text{C}_2\text{H}_5\text{NH}_2$; * 2) $(\text{C}_2\text{H}_5)_2\text{NH}$; 3) $(\text{C}_2\text{H}_5)_3\text{N}$; 4) yvel asi.
46. CamoTvl il i naerTebidan roml is miRebaa SesaZl ebel i Sesabamisi amidis aRdgeni T?
- 1) $\text{C}_2\text{H}_5\text{NH}_2$; 2) $(\text{C}_2\text{H}_5)_2\text{NH}$; 3) $(\text{C}_2\text{H}_5)_3\text{N}$; 4) yvel asi. *
47. romel i naerTi warmoiqmneba nitrobenzol is rogorc mJava, ise tute areSi aRdgenis as?
- 1) nitrozobenzol i; * 2) azobenzol i;
- 3) azoqsibenzol i; 4) hidrazobenzol i.
48. romel i naerTi warmoiqmneba nitrobenzol is rogorc mJava, ise tute areSi aRdgenis as?
- 1) $\text{C}_6\text{H}_5-\text{N}=\text{O}$ * 2) $\text{C}_6\text{H}_5-\text{N}=\text{N}-\text{C}_6\text{H}_5$ 3) $\text{C}_6\text{H}_5-\overset{+}{\text{N}}(\text{O}^-)=\overset{+}{\text{N}}(\text{C}_6\text{H}_5)$ 4) $\text{C}_6\text{H}_5-\text{NH}-\text{NH}-\text{C}_6\text{H}_5$
49. romel i naerTi warmoiqmneba nitrobenzol is rogorc mJava, ise tute areSi aRdgenis as?
- 1) fenil hidroqsil amini; * 2) azobenzol i;
- 3) azoqsibenzol i; 4) hidrazobenzol i.
50. romel i naerTi warmoiqmneba nitrobenzol is rogorc mJava, ise tute areSi aRdgenis as?
- 1) $\text{C}_6\text{H}_5-\text{NH}-\text{OH}$ * 2) $\text{C}_6\text{H}_5-\text{N}=\text{N}-\text{C}_6\text{H}_5$ 3) $\text{C}_6\text{H}_5-\overset{+}{\text{N}}(\text{O}^-)=\overset{+}{\text{N}}(\text{C}_6\text{H}_5)$ 4) $\text{C}_6\text{H}_5-\text{NH}-\text{NH}-\text{C}_6\text{H}_5$
51. romel i naerTi ar warmoiqmneba nitrobenzol is mJava areSi aRdgenis as?
- 1) nitrozobenzol i; 2) fenil hidroqsil amini;
- 3) azoqsibenzol i; * 4) anil ini.
52. romel i naerTi ar warmoiqmneba nitrobenzol is mJava areSi aRdgenis as?

- 1) $C_6H_5-N=O$; 2) $C_6H_5NH_2$; 3) $C_6H_5-NH-OH$; 4) $C_6H_5-NH-NH-C_6H_5$.*
53. romel i naerTi ar warmoiqmneba nitrobenzol is mJava areSi aRdgeni sas?
1) $C_6H_5-N=O$; 2) $C_6H_5NH_2$; 3) $C_6H_5-NH-OH$; 4) $C_6H_5-N=N-C_6H_5$.*
54. romel i naerTi ar warmoiqmneba nitrobenzol is mJava areSi aRdgeni sas?
1) nitrozobenzol i; 2) fenil hidroqsil amini;
3) azobenzol i; * 4) anil ini.
55. romel i naerTi ar warmoiqmneba nitrobenzol is mJava areSi aRdgeni sas?
1) nitrozobenzol i; 2) fenil hidroqsil amini;
3) hidrazobenzol i; * 4) anil ini.
56. CamoTvl il i naerTebidan aminebisaTvis damaxasiaTebel karbil aminur reaqciaSi monawil eobs:
1) ql ormeTani; 2) diql ormeTani;
3) triql ormeTani; * 4) tetraql ormeTani.
57. CamoTvl il i naerTebidan aminebisaTvis damaxasiaTebel karbil aminur reaqciaSi monawil eobs:
1) ql ormeTani; 2) ql oroformi; *
3) diql ormeTani; 4) tetraql ormeTani.
58. CamoTvl il i naerTebidan aminebisaTvis damaxasiaTebel karbil aminur reaqciaSi monawil eobs:
1) KOH; * 2) $NaHSO_3$; 3) $NaHSO_4$; 4) HCl.
59. karbil aminur reaqciaSi monawil eobs:
1) dimeTil amini; 2) izobutil amini; *
3) trimeTil amini; 4) arcerTi CamoTvl il i.
60. karbil aminur reaqciaSi monawil eobs:
1) difenil amini; 2) anil ini; *
3) trimeTil amini; 4) arcerTi CamoTvl il i.
61. karbil aminur reaqciaSi monawil eobs:
1) $CH_3CH_2CH_2NH_2$; * 2) $(CH_3)_2NH$; 3) $(C_4H_9)_3N$; 4) arcerTi.
62. CamoTvl il i aminebidan romel i monawil eobs izonitril ur reaqciaSi?
1) eTil amini; * 2) dieTil amini;
3) trieTil amini 4) yvel a.
63. CamoTvl il i aminebidan romel i monawil eobs izonitril ur reaqciaSi?
1) diizopropil amini; 2) propil amini; *
3) trieTil amini; 4) yvel a.
64. CamoTvl il i aminebidan romel i monawil eobs izonitril ur reaqciaSi?
1) $(C_6H_5)_2NH$; 2) $(C_6H_5)_3N$; 3) $C_6H_5NH_2$; * 4) yvel a.
65. romel i aminebistaTvis aris damaxasiaTebel i izonitril uri reaqcia?
1) mxol od pirvel adi; * 2) mxol od meoreul i;
3) mxol od mesameul i; 4) yvel a amini saTvis.
66. romel i amini monawil eobs karbil aminuri reaqciaSi?
1) $(CH_3)_3N$; 2) $(CH_3)_2NH$; 3) CH_3NH_2 ; * 4) yvel a.
67. CamoTvl il i aminebidan romel i ar reagirebs azotovanmJavasTan oTaxis temperaturaze?
1) izopropil amini; 2) dieTil amini;
3) trieTil amini; * 4) diizopropil amini.
68. CamoTvl il i aminebidan romel i ar reagirebs azotovanmJavasTan oTaxis temperaturaze?
1) izopropil amini; 2) dieTil amini;
3) dieTil meTil amini; * 4) diizopropil amini.
69. CamoTvl il i aminebidan romel i ar reagirebs azotovanmJavasTan oTaxis temperaturaze?

- 1) izopropil amini; 2) dietil amini;
 3) etilmetilpropil amini; * 4) diizopropil amini.
70. Camotvilil i aminebidan romel i ar reagirebs azotovanmJavasTan otaxis temperaturaze?
 1) $(C_2H_5)_3N$; * 2) $(C_2H_5)_2NH$; 3) $C_2H_5NH_2$; 4) yvel a.
71. karbil aminebze maril mJavas moqmedebi T mi iReba:
 1) $HCOOH$; * 2) CH_3COOH ; 3) NH_3 ; 4) CH_3OH .
72. karbil aminebze maril mJavas moqmedebi T mi iReba:
 1) metanol i; 2) metanal i; 3) metanmJava; * 4) etanol i.
73. izonitril ebze mJavebis moqmedebi T mi iReba:
 1) amidebi; 2) aminebi; * 3) nitronaerTebi; 4) nitril ebi.
74. izonitril ebze mJavebis moqmedebi T mi iReba:
 1) amidebi; 2) WianWvel mJava; * 3) nitronaerTebi; 4) nitril ebi.
75. pirvel adi aminebisatvis damaxasiaTebel i karbil aminuri reaqciis produqtia:
 1) nitril ebi; 2) izonitril ebi; * 3) amidebi; 4) karbonil uri naerTebi.
76. romel i mJavas naSTi gvxvdeba fol mJavas mol ekul is Sedgenil obaSi?
 1) orto-aminobenzomJavasi; 2) meta-aminobenzomJavasi;
 3) para-aminobenzomJavasi; * 4) sal icil mJavasi.
77. rogori saxel wodebiTaa cnobil i sul fanil amidi?
 1) l uminal i; 2) val idol i; 3) kordiamini; 4) streptocidi. *
78. romel i naerTis antimetabol itebis sul fanil amiduri preparatebi?
 1) orto-aminobenzomJavasi; 2) meta-aminobenzomJavasi;
 3) para-aminobenzomJavasi; * 2) meta-aminosal icil mJavasi.
79. romel i samkurnal o preparatis aRnagobaa gamosaxul i qvemoT?



- 1) l uminal is; 2) val idol is; 3) kordiaminis; 4) streptocidis. *
80. streptocidi aris sul fanil mJavas:
 1) anhidridi; 2) metil eteri; 3) maril i; 4) amidi. *
81. azotovanmJavasTan romel i aminis moqmedebi T ar mi iReba N-nitrozoamini?
 1) $(C_2H_5)_2NH$; 2) $(C_2H_5)_3N$; 3) $(C_6H_5)_2NH$; 4) $C_2H_5NH_2$. *
82. azotovanmJavasTan romel i aminis moqmedebi T mi iReba N-nitrozoamini?
 1) metil amini; 2) fenil amini; 3) difenil amini; * 4) trifenil amini.
83. azotovanmJavasTan romel i aminis moqmedebi T mi iReba N-nitrozoamini?
 1) dimetil amini; * 2) fenil amini; 3) propil amini; 4) trifenil amini.
84. N-nitrozoamini mi iReba azotovanmJavas moqmedebi T:
 1) izobutil aminTan; 2) fenil aminTan;
 3) dietil aminTan; * 4) dimeTil fenil aminTan.
85. moyvanil i naerTebidan romel i acil irdeba yvel aze aqtiurad?
 1) anil ini; 2) izobutil amini;
 3) difenil amini; 4) dipropil amini. *
86. Camotvilil i naerTebidan romel i mi iReba anil inze azotmJavas moqmedebi T?
 1) o-nitroanil ini; 2) m-nitroanil ini;
 3) p-nitroanil ini; 4) arcerTi.
87. romel i naerTis aRdgeniT SeiZl eba mesameul i aminis miReba?
 1) mxol od nitril ebis; 2) mxol od amidebis; *
 3) mxol od oqsimebis; 4) samive Camotvilil is.
88. romel i naerTebis aRdgeniT aris SesaZl ebel i rogorc pirvel adi, ise meoreul i aminebis miReba?

1) nitril ebis; 2) oqsimebis; 3) amidebis; * 4) rTul i eTerebis.

89. romel i naerTebis aRdgeniT aris SesaZI ebel i rogorc pirvel adi, ise mesameul i aminebis miReba?

1) nitril ebis; 2) oqsimebis; 3) amidebis; * 4) rTul i eTerebis.

90. romel i naerTebis aRdgeniT aris SesaZI ebel i rogorc pirvel adi, ise meoreul i da mesameul i aminebis miReba?

1) nitril ebis; 2) oqsimebis; 3) amidebis; * 4) rTul i eTerebis.

91. romel i aminebis miRebaa SesaZI ebel i nitril ebis aRdgeniT?

1) mxol od pirvel adi; * 2) mxol od meoreul i; 3) mxol od mesameul i;

4) rogorc pirvel adi, ise meoreul i da mesameul i.

92. romel i aminebis miRebaa SesaZI ebel i oqsimebis aRdgeniT?

1) mxol od pirvel adi; * 2) mxol od meoreul i; 3) mxol od mesameul i;

4) rogorc pirvel adi, ise meoreul i da mesameul i.

93. romel i aminebis miRebaa SesaZI ebel i amidebis aRdgeniT?

1) mxol od pirvel adi; 2) mxol od meoreul i; 3) mxol od mesameul i;

4) rogorc pirvel adi, ise meoreul i da mesameul i. *

94. romel i naerTis aRdgeniT SeiZI eba meoreul i aminis miReba?

1) mxol od nitril ebis; 2) mxol od amidebis; *

3) mxol od oqsimebis; 4) samive CamoTvl il is.

95. romel i naerTis aRdgeniT SeiZI eba mesameul i aminis miReba?

1) $R-C\equiv N$; 2) $R-CH=NOH$; 3) $R-CONR_2$; * 2) $R-CO-R$.

96. 3,4,5-trihidroqsi benzomJavas saxel wodebaa:

1) gal mJava; * 2) fol mJava; 3) orotmJava; 4) sal icil mJava.

97. 2-hidroqsi benzomJavas saxel wodebaa:

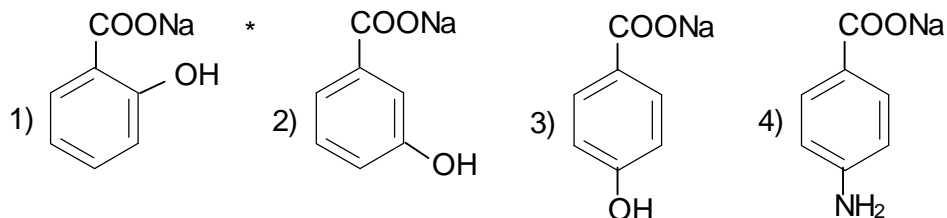
1) gal mJava; 2) fol mJava; 3) orotmJava; 4) sal icil mJava. *

98. sal icil mJava aris:

1) 2-hidroqsi benzomJava; * 2) 3-hidroqsi benzomJava;

3) 4-hidroqsi benzomJava; 4) 3,4,5-trihidroqsi benzomJava.

99. romel i naerTi miiReba natriumis fenol atidan kol bes reaqciiT?



100. romel i naerTis misaRebad axorciel eben natriumis fenol atis karboqsil irebas?

1) fol mJava; 2) para-aminobenzomJavas; 3) sal icil mJavas; * 4) barbiturmJavas.

101. sal icil mJavas misaRebad axdenen natriumis fenol atis:

1) karbonil irebas; 2) karboqsil irebas; * 3) hidroqsil irebas; 4) nitrirebas.

102. al kenebis oqsidedze romel i naerTis moqmedebiT Rebul oben β -hidroqsimJavaTa nitril ebs?

1) azotmJavas; 2) ql orwyal badmJavas; 3) cianwyal badmJavas; * 4) amiakis.

103. romel hidroqsimJavaTa nitril ebs Rebul oben al kenebis oqsidedze cianwyal badmJavas moqmedebiT?

1) α -; 2) β -; * 3) δ -; 4) γ -.

104. romel i naerTi miiReba acetal dehidze cianwyal badmJavas moqmdediT miRebul i hidroqsinitril is hidrol iziT?

1) RvinomJava; 2) rZemJava; * 3) l imonmJava; 4) gl ikol mJava.

105. cianwyal badmJavas romel naerTTan moqmedebisas miRebul i hidroqsini tril is hidrol iziT warmoiqmneba rZemJava?
- 1) formal dehididi; 2) acetal dehididi; * 3) propionis al dehididi; 4) erbos al dehididi.
106. romel i naerTidan miiReba rZemJava masze cianwyal badmJavas moqmedebisas miRebul i hidroqsini tril is hidrol izis Sedegad?
- 1) meTanal i; 2) eTanal i; * 3) propanal i; 4) propanoni.
107. romel i naerTidan miiReba gl ikol mJava masze cianwyal badmJavas moqmedebisas miRebul i hidroqsini tril is hidrol izis Sedegad?
- 1) meTanal i; * 2) eTanal i; 3) propanal i; 4) propanoni.
108. aminomJavebze romel i naerTis moqmedebi T miiReba hidroqsimJavebi?
- 1) tutis; 2) azotmJavasi; 3) azotovanmJavasi; * 4) gadaxurebul i wyl is orTql iT.
109. azotovanmJavasTan romel i naerTis moqmedebi T miiReba hidroqsimJavebi?
- 1) aminebis; 2) amidebis; 3) aminomJavebis; * 4) aminospirtebis.
110. romel i naerTis daJangvi T miiReba hidroqsimJava?
- 1) eTanol is; 2) eTil engl ikol is; * 3) kol aminis; 4) al aninis.
111. romel i naerTebis aRdgeni T miiReba hidroqsimJavebi?
- 1) oqsomJavebis; * 2) aminospirtebis; 3) aminomJavebis; 4) hidroqsial dehididebis.
112. hidroqsibutandimJavas trivial uri saxel wodebaa:
- 1) I imonmJava; 2) RvinomJava; 3) vaSl mJava; * 4) rZemJava.
113. 2,3-dihi droqsibutandimJavas trivial uri saxel wodebaa:
- 1) I imonmJava; 2) RvinomJava; * 3) vaSl mJava; 4) rZemJava.
114. 2-hi droqsipropan-1,2,3-trikarbonmJavas trivial uri saxel wodebaa:
- 1) I imonmJava; * 2) RvinomJava; 3) vaSl mJava; 4) rZemJava.
115. 1-hi droqsipropan-1,2,3-trikarbonmJavas trivial uri saxel wodebaa:
- 1) I imonmJava; 2) RvinomJava; 3) vaSl mJava; 4) izol imonmJava. *
116. mineral ur mJavebTan romel i naerTis gaxurebi T miiReba eTanal i?
- 1) gl ikol mJavas; 2) rZemJavas; * 3) vaSl mJavas; 4) RvinomJavas.
117. mineral ur mJavebTan romel i naerTis gaxurebi T miiReba acetal dehididi?
- 1) $\text{CH}_2\text{OH-COOH}$; 2) $\text{HOOC-CH}_2\text{-COOH}$;
3) $\text{HOOC-CH}_2\text{-CHOH-COOH}$; 4) $\text{CH}_3\text{-CHOH-COOH}$. *
118. piroyurZenmJavas gaxurebi T ganzavebul gogirdmJavasTan erTad miiReba:
- 1) eTanmJava; 2) eTanal i; * 3) eTanol i; 4) propanoni.
119. 2-oqsopropanmJavas romel naerTTan gaxurebi T miiReba acetal dehididi?
- 1) ganz. HNO_3 ; 2) ganz. H_2SO_4 ; * 3) konc. HNO_3 ; 4) konc. H_2SO_4 .
120. romel i naerTi miiReba rZemJavas gaxurebi T?
- 1) I aqtidi; * 2) I aqtami; 3) uj eri mJava; 4) I aqtoni.
121. romel i naerTi miiReba gl ikol mJavas gaxurebi T?
- 1) I aqtidi; * 2) I aqtami; 3) uj eri mJava; 4) I aqtoni.
122. romel i naerTis gaxurebi T miiReba I aqtidi?
- 1) $\text{CH}_3\text{-COOH}$; 2) $\text{CH}_2\text{OH-COOH}$; *
3) $\text{CH}_3\text{-CO-COOH}$; 4) $\text{CH}_2\text{OH-CH}_2\text{-COOH}$.
123. romel i naerTis gaxurebi T miiReba I aqtidi?
- 1) $\text{CH}_3\text{-COOH}$; 2) $\text{HOOC-CH}_2\text{-COOH}$;
3) $\text{CH}_3\text{-CO-COOH}$; 4) $\text{CH}_3\text{-CHOH-COOH}$. *
124. romel naerTze iqna aRmoCeni l i val denis Semobruneba?
- 1) 2-hi droqsibutanmJava; 2) 2-hi droqsibutandimJava; *
3) 2,3-dihi droqsibutandimJava; 4) arcerT CamoTvl il ze.
125. romel naerTze iqna aRmoCeni l i val denis Semobruneba?
- 1) $\text{CH}_2\text{OH-COOH}$; 2) $\text{HOOC-CH}_2\text{-COOH}$;
3) $\text{HOOC-CH}_2\text{-CHOH-COOH}$; * 4) $\text{CH}_3\text{-CHOH-COOH}$.
126. CamoTvl il i naerTebidan romel ia rZemJava?

- 1) $\text{CH}_3\text{-COOH}$; 2) $\text{HOOC-CH}_2\text{-COOH}$;
 3) $\text{CH}_3\text{-CO-COOH}$; 4) $\text{CH}_3\text{-CHOH-COOH}$. *
127. CamoTvl il i naerTebidan romel ia gl i kol mJava?
 1) $\text{CH}_2\text{OH-COOH}$; * 2) $\text{HOOC-CH}_2\text{-COOH}$;
 3) $\text{HOOC-CH}_2\text{-CHOH-COOH}$; 4) $\text{CH}_3\text{-CHOH-COOH}$.
128. CamoTvl il i naerTebidan romel ia mal onmJava?
 1) $\text{CH}_2\text{OH-COOH}$; 2) $\text{HOOC-CH}_2\text{-COOH}$; *
 3) $\text{HOOC-CH}_2\text{-CHOH-COOH}$; 4) $\text{CH}_3\text{-CHOH-COOH}$.
129. CamoTvl il i naerTebidan romel ia vaSl mJava?
 1) $\text{CH}_2\text{OH-COOH}$; 2) $\text{HOOC-CH}_2\text{-COOH}$;
 3) $\text{HOOC-CH}_2\text{-CHOH-COOH}$; * 4) $\text{CH}_3\text{-CHOH-COOH}$.
130. CamoTvl il i naerTebidan romel ia RvinomJava?
 1) $\text{CH}_2\text{OH-COOH}$; 2) $\text{HOOC-CH}_2\text{-COOH}$;
 3) $\text{HOOC-CHOH-CHOH-COOH}$; * 4) $\text{CH}_3\text{-CHOH-COOH}$.
133. CamoTvl il i naerTebidan romel ia l imonmJava?
 1) $\text{HOOC-CH}_2\text{-C(OH)(COOH)-CH}_2\text{-COOH}$; * 2) $\text{HOOC-CHOH-CH(COOH)-CH}_2\text{-COOH}$;
 3) $\text{HOOC-CH}_2\text{-CHOH-COOH}$; 4) $\text{CH}_3\text{-CHOH-COOH}$.
132. CamoTvl il i naerTebidan romel ia izol imonmJava?
 1) $\text{HOOC-CH}_2\text{-C(OH)(COOH)-CH}_2\text{-COOH}$; 2) $\text{HOOC-CHOH-CH(COOH)-CH}_2\text{-COOH}$; *
 3) $\text{HOOC-CH}_2\text{-CHOH-COOH}$; 4) $\text{CH}_3\text{-CHOH-COOH}$.
133. CamoTvl il i naerTebidan romel ia akoni tmJava?
 1) $\text{HOOC-CH}_2\text{-C(OH)(COOH)-CH}_2\text{-COOH}$; 2) $\text{HOOC-CHOH-CH(COOH)-CH}_2\text{-COOH}$;
 3) $\text{HOOC-CH}_2\text{-CHOH-COOH}$; 4) $\text{HOOC-CH=C(COOH)-CH}_2\text{-COOH}$. *
134. romel i mJavas maril ebia cnobil i tartratebis saxel wodebiT?
 1) $\text{HOOC-CH}_2\text{-CH}_2\text{-COOH}$; 2) $\text{HOOC-CHOH-CHOH-COOH}$; *
 3) $\text{HOOC-CH}_2\text{-CH(OH)-CH(COOH)-COOH}$; 4) $\text{HOOC-CH}_2\text{-C(OH)(COOH)-CH}_2\text{-COOH}$.
135. romel i mJavas maril ebia cnobil i citratebis saxel wodebiT?
 1) $\text{HOOC-CH}_2\text{-CH}_2\text{-COOH}$; 2) $\text{HOOC-CHOH-CHOH-COOH}$;
 3) $\text{HOOC-CH}_2\text{-CH(OH)-CH(COOH)-COOH}$; 4) $\text{HOOC-CH}_2\text{-C(OH)(COOH)-CH}_2\text{-COOH}$. *
136. romel i mJavas maril ebia cnobil i izocitratebis saxel wodebiT?
 1) $\text{HOOC-CH}_2\text{-CH}_2\text{-COOH}$; 2) $\text{HOOC-CHOH-CHOH-COOH}$;
 3) $\text{HOOC-CH}_2\text{-CH(OH)-CH(COOH)-COOH}$; * 4) $\text{HOOC-CH}_2\text{-C(OH)(COOH)-CH}_2\text{-COOH}$.
137. romel i mJavas maril ebia cnobil i mal atebis saxel wodebiT?
 1) $\text{CH}_2\text{OH-COOH}$; 2) $\text{HOOC-CH}_2\text{-COOH}$;
 3) $\text{HOOC-CH}_2\text{-CHOH-COOH}$; * 4) HOOC-CH=CH-COOH .
138. romel i anionia cnobil i tartratis saxel wodebiT?
 1) $\text{}^-\text{OOC-CH}_2\text{-CH}_2\text{-COO}^-$; 2) $\text{}^-\text{OOC-CHOH-CHOH-COO}^-$; *
 3) $\text{}^-\text{OOC-CH}_2\text{-CH(OH)-CH(COOH)-COO}^-$; 4) $\text{}^-\text{OOC-CH}_2\text{-C(OH)(COOH)-CH}_2\text{-COO}^-$.
139. romel i anionia cnobil i citratis saxel wodebiT?
 1) $\text{}^-\text{OOC-CH}_2\text{-CH}_2\text{-COO}^-$; 2) $\text{}^-\text{OOC-CHOH-CHOH-COO}^-$;
 3) $\text{}^-\text{OOC-CH}_2\text{-CH(OH)-CH(COOH)-COO}^-$; 4) $\text{}^-\text{OOC-CH}_2\text{-C(OH)(COOH)-CH}_2\text{-COO}^-$. *
140. romel i anionia cnobil i mal atis saxel wodebiT?
 1) $\text{CH}_2\text{OH-COO}^-$; 2) $\text{}^-\text{OOC-CH}_2\text{-COO}^-$;
 3) $\text{}^-\text{OOC-CH}_2\text{-CHOH-COO}^-$; * 4) $\text{CH}_3\text{-CHOH-COO}^-$.
141. romel i anionia cnobil i gl i kol atis saxel wodebiT?
 1) $\text{CH}_2\text{OH-COO}^-$; * 2) $\text{}^-\text{OOC-CH}_2\text{-COO}^-$;
 3) $\text{}^-\text{OOC-CH}_2\text{-CHOH-COO}^-$; 4) $\text{}^-\text{OOC-CH=CH-COO}^-$.
142. romel i anionia cnobil i izocitratis saxel wodebiT?
 1) $\text{}^-\text{OOC-CH}_2\text{-CH}_2\text{-COO}^-$; 2) $\text{}^-\text{OOC-CHOH-CHOH-COO}^-$;
 3) $\text{}^-\text{OOC-CH}_2\text{-CH(OH)-CH(COOH)-COO}^-$; * 4) $\text{}^-\text{OOC-CH}_2\text{-C(OH)(COOH)-CH}_2\text{-COO}^-$.

143. romel i anionia cnobil i l aqtatis saxel wodebiT?
 1) $\text{CH}_2\text{OH-COO}^-$; 2) $\text{OOC-CH}_2\text{-COO}^-$;
 3) $\text{OOC-CH}_2\text{-CHOH-COO}^-$; 4) $\text{CH}_3\text{-CHOH-COO}^-$.*
145. romel i anionia cnobil i akonitatis saxel wodebiT?
 1) $\text{OOC-CH}_2\text{-CH(OH)-CH(COOH)-COO}^-$; 2) $\text{OOC-CH}_2\text{-C(OH)(COOH)-CH}_2\text{-COO}^-$;
 3) $\text{OOC-CH}_2\text{-CHOH-COO}^-$; 4) $\text{OOC-CH=C(COOH)-CH}_2\text{-COO}^-$.*
146. romel i mJavas gaxurebiT mi iReba akoni tmJava?
 1) $\text{HOOC-CH}_2\text{-C(OH)(COOH)-CH}_2\text{-COOH}$; * 2) $\text{HOOC-CHOH-CH(COOH)-CH}_2\text{-COOH}$;
 3) $\text{HOOC-CH}_2\text{-CHOH-COOH}$; 4) $\text{HOOC-CH=C(COOH)-CH}_2\text{-COOH}$.
147. CamoTvl ili mJavebidan roml isTvis ar aris damaxasiaTebel i optikuri izomeria?
 1) rZemJava; 2) vaSI mJava; 3) gl i kol mJava; * 4) RvinomJava.
148. romel i hidroqsimJava ar Seicavs qiral ur naxSirbadatoms?
 1) rZemJava; 2) vaSI mJava; 3) gl i kol mJava; * 4) RvinomJava.
149. CamoTvl ili naerTebidan roml is gaxurebiT warmoiqmneba l aqti di?
 1) akoni tmJava; 2) mal onmJava; 3) gl i kol mJava; * 4) piroyurZenmJava.
150. CamoTvl ili mJavebidan romel i ar gamoyofs gaxurebisas naxSirbadis di oqsids?
 1) acetoZmarmJava; 2) gl ioqsil mJava; *
 3) acetondikarbonmJava; 4) arcerTi.
151. kunTebSi romel i mJavas dagroveba iwvevs tkivil is SegrZnebas?
 1) rZemJava; 2) vaSI mJava; * 3) gl i kol mJava; 4) RvinomJava
152. δ -hidroqsimJavebi gaxurebisas warmoqmni s:
 1) l aqtonebs; * 2) l aqtidebs; 3) ujer karbonmJavebs; 4) l aqtamebs.
153. α -hidroqsimJavebi gaxurebisas warmoqmni s:
 1) l aqtonebs; 2) l aqtidebs; * 3) ujer karbonmJavebs; 4) l aqtamebs.
154. β -hidroqsimJavebi gaxurebisas warmoqmni s:
 1) l aqtonebs; 2) l aqtidebs; 3) ujer karbonmJavebs; * 4) l aqtamebs.
155. λ -hidroqsimJavebi gaxurebisas warmoqmni s:
 1) l aqtonebs; 2) l aqtidebs;
 3) ujer karbonmJavebs; 4) xazovani pol ieTerebs. *
156. CamoTvl ili hidroqsimJavebidan romel Ta gaxurebiT mi iReba l aqtidebi?
 1) α - ; * 2) β - ; 3) γ - ; 4) λ - .
157. CamoTvl ili hidroqsimJavebidan romel Ta gaxurebiT mi iReba l aqtonebi?
 1) α - ; 2) β - ; 3) γ - ; * 4) λ - .
158. CamoTvl ili hidroqsimJavebidan romel Ta gaxurebiT mi iReba ujeri karbonmJavebi?
 1) α - ; 2) β - ; * 3) γ - ; 4) λ - .
159. CamoTvl ili hidroqsimJavebidan romel Ta gaxurebiT mi iReba xazovani pol ieTerebi?
 1) α - ; 2) β - ; 3) γ - ; 4) λ - . *
160. romel i maril ebi uSI is xel s sisxl is Sededebas?
 1) citratebi; * 2) l aqtatebi; 3) mal atebi; 4) tartratebi.
161. CamoTvl ili hidroqsimJavebidan romel i gamoiyeneba hematol ogiaSi?
 1) $\text{HOOC-CH}_2\text{-C(OH)(COOH)-CH}_2\text{-COOH}$; * 2) $\text{HOOC-CHOH-CH(COOH)-CH}_2\text{-COOH}$;
 3) $\text{HOOC-CH}_2\text{-CHOH-COOH}$; 4) $\text{HOOC-CHOH-CHOH-COOH}$.
162. CamoTvl ili mJavebidan romel ia hidroqsimJava?
 1) piroyurZenmJava; 2) gl i kol mJava; *
 3) mJaunZmarmJava; 4) gl ioqsil mJava.
163. CamoTvl ili mJavebidan romel ia hidroqsimJava?

- 1) piroyurZenmJava; 2) formil ZmarmJava;
 3) vaSI mJava; * 4) gl ioqsil mJava
164. CamoTvl il i mJavebidan romel ia hidroqsimJava?
 1) piroyurZenmJava; 2) acetoZmarmJava;
 3) mJaunZmarmJava; 4) RvinomJava. *
165. CamoTvl il i mJavebidan romel ia hidroqsimJava?
 1) piroyurZenmJava; 2) acetoZmarmJava;
 3) l imonmJava; * 4) gl ioqsil mJava.
166. CamoTvl il i mJavebidan romel ia hidroqsimJava?
 1) piroyurZenmJava; 2) rZemJava; *
 3) mJaunZmarmJava; 4) gl ioqsil mJava.
167. CamoTvl il i mJavebidan romel ia hidroqsimJava?
 1) piroyurZenmJava; 2) acetoZmarmJava;
 3) mJaunZmarmJava; 4) izol imonmJava. *
168. wyal badis peroqsi di T butendimJavas daJangvi sas mi i Reba:
 1) qarvamJava; 2) vaSI mJava; 3) RvinomJava; * 4) l imonmJava.
169. wyal badis peroqsi di T romel i naerTis daJangvi sas mi i Reba RvinomJava?
 1) 1-butenmJava; 2) 2-butenmJava;
 3) butendimJava; * 4) meTil propenmJava.
170. romel i naerTi warmoiqmneba gl ikol mJavas gaxurebi T mineral ur mJavebTan erTad?
 1) eTil is spirti; 2) formal dehidi; *
 3) eTil engl ikol i; 4) acetal dehidi.
171. romel i naerTi warmoiqmneba rZemJavas gaxurebi T mineral ur mJavebTan erTad?
 1) eTil is spirti; 2) formal dehidi;
 3) eTil engl ikol i; 4) acetal dehidi. *
172. romel i naerTi warmoiqmneba l imonmJavas gaxurebi T mineral ur mJavebTan erTad?
 1) acetondikarbonmJava; * 2) formal dehidi;
 3) eTil engl ikol i; 4) acetal dehidi.
173. romel i mJava warmoqmnis mineral ur mJavebTan erTad gaxurebi sas formal dehids?
 1) gl ikol mJava; * 2) RvinomJava; 3) rZemJava; 4) l imonmJava.
174. romel i mJava warmoqmnis mineral ur mJavebTan erTad gaxurebi sas acetal dehids?
 1) gl ikol mJava; 2) RvinomJava; 3) rZemJava; * 4) l imonmJava.
175. romel i hidroqsimJavebis Tvisesaa l imonmJavadan acetondikarbonmJavas mi Reba?
 1) α - ; * 2) β - ; 3) γ - ; 4) δ - .
176. romel i hidroqsimJavebis Tvisesaa l imonmJavadan akoni tmJavas mi Reba?
 1) α - ; 2) β - ; * 3) γ - ; 4) δ - .
177. CamoTvl il i mJavebidan romel ia rogorc α -, ise β -hidroqsimJava?
 1) vaSI mJava; 2) l imonmJava; * 3) izol imonmJava; 4) RvinomJava.
178. l aqtoni aris:
 1) cikli uri martivi eTeri; 2) cikli uri martivi dieTeri;
 3) cikli uri rTul i eTeri; * 4) cikli uri rTul i dieTeri;
179. CamoTvl il i mJavebidan romel ia uj eri?
 1) l imonmJava; 2) vaSI mJava; 3) akoni tmJava; * 4) RvinomJava.
180. digl ikol idi aris:
 1) cikli uri martivi eTeri; 2) cikli uri martivi dieTeri;
 3) cikli uri rTul i eTeri; 4) cikli uri rTul i dieTeri; *
181. romel i naerTis gaxurebi T mi i Reba propenmJava?

- 1) 2-hi droqsi propanmJava; 2) 3-hi droqsi propanmJava; *
 3) 2-oqsopropanmJava; 4) 3-oqsopropanmJava;

182. gaxurebisas l aqtos warmoqmni s:

- 1) l imonmJava; 2) vaSl mJava;
 3) izol imonmJava; * 4) arcerTi CamoTvl il i.

183. mineral ur mJavebTan romel i naerTis gaxurebiT mi iReba eTanal i?

- 1) $\text{CH}_3\text{-CHOH-COOH}$; * 2) $\text{HOCH}_2\text{-CH}_2\text{-COOH}$;

- 3) $\text{CH}_3\text{-CO-COOH}$; 4) $\text{HOOC-CH}_2\text{-COOH}$;

184. romel i naerTis gaxurebiT mi iReba propanmJava?

- 1) $\text{CH}_3\text{-CHOH-COOH}$; 2) $\text{HOCH}_2\text{-CH}_2\text{-COOH}$; *

- 3) $\text{CH}_3\text{-CO-COOH}$; 4) $\text{HOOC-CH}_2\text{-COOH}$;

185. gaxurebisas l aqtos warmoqmni s:

- 1) $\text{HOOC-CH}_2\text{-CH}_2\text{-COOH}$;

- 2) $\text{HOOC-CHOH-CHOH-COOH}$;

- 3) $\text{HOOC-CH}_2\text{-CH(OH)-CH(COOH)-COOH}$; *

- 4) $\text{HOOC-CH}_2\text{-C(OH)(COOH)-CH}_2\text{-COOH}$.

186. romel i mJavas enantiomerebis Tanabari raodenobis narevs uwodeben yurZenmJavas?

- 1) RvinomJavas; * 2) l imonmJavas; 3) vaSl mJavas; 4) val erianmJavas.

187. romel i mJavas enantiomerebis Tanabari raodenobis narevs uwodeben yurZenmJavas?

- 1) $\text{HOOC-CH}_2\text{-CHOH-COOH}$;

- 2) $\text{HOOC-CHOH-CHOH-COOH}$; *

- 3) $\text{HOOC-CH}_2\text{-CH(OH)-CH(COOH)-COOH}$;

- 4) $\text{CH}_3\text{-CHOH-COOH}$.

188. sal icil mJavas gaxurebiT mi iReba:

- 1) benzol i;

- 2) fenol i; *

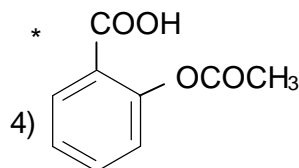
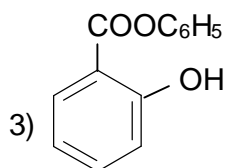
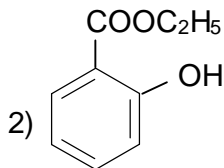
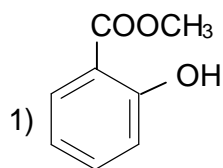
- 3) wianWvel mJava;

- 4) tol uol i.

189. romel i mJavas eTeria sal ol i?

- 1) rZemJavasi; 2) gal mJavasi; 3) fol mJavasi; 4) sal icil mJavasi. *

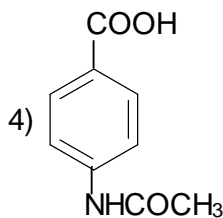
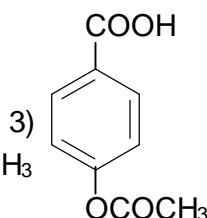
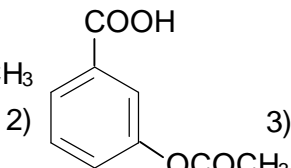
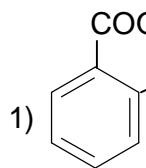
190. CamoTvl il i naerTebidan romel ia sal ol i?



191. ra saxel wodebiTaa cnobil i sal icil mJavas acetil irebis produqti?

- 1) sal ol i; 2) streptocidi; 3) aspirini; * 4) val okardini.

192. romel i formul a Seesabameba acetil sal icil mJavas?



193. ol eumiT romel i mJavas dekarbonil irebiTa da dehidrataci iT mi iReba acetondi karbonmJava?

- 1) RvinomJava; 2) l imonmJava; * 3) izol imonmJava; 4) fol mJava.

194. l imonmJavas gaxurebisas warmoqmnil i produqtis dekarboqsil irebiT mi iReba:

- 1) propanal i; 2) propanol i; 3) propanoni; * 4) propanmJava.

195. romel i naerTis Jangvis produqtia mJaunmJava?

- 1) gl i kol mJavasi; * 2) rZemJavasi; 3) vaSl mJavasi; 4) RvinomJavasi.

196. romel i naerTi mi iReba piroyurZenmJavas aRdgeniT?

- 1) vaSl mJava; 2) yurZenmJava; 3) l imonmJava; 4) rZemJava. *

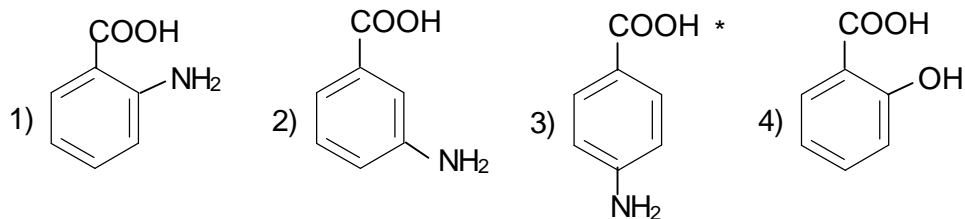
197. romel i naerTi mi iReba piroyurZenmJavas aRdgeniT?

- 1) $\text{CH}_2\text{OH}-\text{COOH}$; 2) $\text{HOOC}-\text{CH}-\text{CHOH}-\text{COOH}$;
 3) $\text{HOOC}-\text{CH}_2-\text{CHOH}-\text{COOH}$; 4) $\text{CH}_3-\text{CHOH}-\text{COOH}$. *
198. CamoTvl il i hidroqsimJavebidan roml is gaxurebiT aris SeuZl ebel i cikli uri rTul i eTeris miReba?
 1) 3-hidroqsi heqsanmJava; 2) 4-hidroqsi heqsanmJava;
 3) 5-hidroqsi heqsanmJava; 4) samivesi. *
199. CamoTvl il i mJavebidan roml is mol ekul is Sedgenil obaSia erTi qiral uri naxSirbadatomi?
 1) acetondikarbonmJava; 2) l imonmJava; 3) RvinomJava; 4) vaSl mJava. *
200. CamoTvl il i naerTebidan romel ia fenol mJava?
 1) l imonmJava; 2) benzomJava; 3) sal icil mJava; * 4) yurZenmJava.
201. CamoTvl il i naerTebidan romel ia racemati?
 1) l imonmJava; 2) gl i kol mJava; 3) gl ioqsil mJava; 4) yurZenmJava. *
202. CamoTvl il i mJavebidan romel i arsebobs hidratis saxiT?
 1) gl ioqsil mJava; * 2) formil ZmarmJava; 3) gl i kol mJava; 4) rZemJava.
203. CamoTvl il i mJavebidan romel i arsebobs hidratis saxiT?
 1) $\text{HOOC}-\text{CHO}$; * 2) $\text{HOOC}-\text{CH}_2-\text{CHO}$;
 3) $\text{CH}_3-\text{CO}-\text{COOH}$; 4) $\text{CH}_3-\text{CO}-\text{CH}_2-\text{COOH}$.
204. CamoTvl il i naerTebidan romel ia gl ioqsil mJava?
 1) $\text{HOOC}-\text{CHO}$; * 2) $\text{HOOC}-\text{CH}_2-\text{CHO}$;
 3) $\text{CH}_3-\text{CO}-\text{COOH}$; 4) $\text{CH}_3-\text{CO}-\text{CH}_2-\text{COOH}$.
205. CamoTvl il i naerTebidan romel ia formil ZmarmJava?
 1) $\text{HOOC}-\text{CHO}$; 2) $\text{HOOC}-\text{CH}_2-\text{CHO}$; *
 3) $\text{CH}_3-\text{CO}-\text{COOH}$; 4) $\text{CH}_3-\text{CO}-\text{CH}_2-\text{COOH}$.
206. CamoTvl il i naerTebidan romel ia piroyurZenmJava?
 1) $\text{HOOC}-\text{CHO}$; 2) $\text{HOOC}-\text{CH}_2-\text{CHO}$;
 3) $\text{CH}_3-\text{CO}-\text{COOH}$; * 4) $\text{CH}_3\text{CO}-\text{CH}_2-\text{COOH}$.
207. CamoTvl il i naerTebidan romel ia acetoZmarmJava?
 1) $\text{HOOC}-\text{CHO}$; 2) $\text{HOOC}-\text{CH}_2-\text{CHO}$;
 3) $\text{CH}_3-\text{CO}-\text{COOH}$; 4) $\text{CH}_3-\text{CO}-\text{CH}_2-\text{COOH}$. *
208. CamoTvl il i naerTebidan romel ia mJaunZmarmJava?
 1) $\text{HOOC}-\text{CHO}$; 2) $\text{HOOC}-\text{CH}_2-\text{CHO}$;
 3) $\text{HOOC}-\text{CO}-\text{CH}_2-\text{COOH}$; * 4) $\text{CH}_3-\text{CO}-\text{CH}_2-\text{COOH}$.
209. CamoTvl il i naerTebidan romel ia β -oqsomJava?
 1) acetondikarbonmJava; * 2) gl ioqsil mJava;
 3) piroyurZenmJava; 4) gl i kol mJava.
210. CamoTvl il i naerTebidan romel ia β -oqsomJava?
 1) formil ZmarmJava; * 2) gl ioqsil mJava;
 3) piroyurZenmJava; 4) gl i kol mJava.
211. CamoTvl il i naerTebidan romel ia β -oqsomJava?
 1) gl ioqsil mJava; 2) acetoZmarmJava; *
 3) piroyurZenmJava; 4) gl i kol mJava.
212. CamoTvl il i naerTebidan romel ia α -oqsomJava?
 1) acetondikarbonmJava; 2) acetoZmarmJava;
 3) formil ZmarmJava; 4) gl ioqsil mJava. *
213. CamoTvl il i naerTebidan romel ia α -oqsomJava?
 1) acetondikarbonmJava; 2) formil ZmarmJava;
 3) piroyurZenmJava; * 4) gl i kol mJava.
214. al dehidmJavebis umartivesi warmomadgenel ia:
 1) piroyurZenmJava; 2) gl ioqsil mJava; * 3) formil ZmarmJava; 4) acetoZmarmJava.
215. ketomJavebis umartivesi warmomadgenel ia:

- 1) piroyurZemJava; * 2) gl ioqsil mJava; 3) formil ZmarmJava; 4) acetoZmarmJava.
216. romel i mJavas maril ebia oqsal oacetatebi?
- 1) $\text{CH}_3\text{-CO-CH}_2\text{-COOH}$; 2) $\text{HOOC-CO-CH}_2\text{-COOH}$; * 3) $\text{CH}_3\text{-CHOH-COOH}$; 4) OHC-COOH .
217. romel i mJavas maril ebia acetoacetatebi?
- 1) $\text{CH}_3\text{-CO-CH}_2\text{-COOH}$; * 2) $\text{HOOC-CO-CH}_2\text{-COOH}$; 3) $\text{CH}_3\text{-CHOH-COOH}$; 4) OHC-COOH .
218. romel i mJavas maril ebia piruvatebi?
- 1) HOOC-CHO ; 2) $\text{HOOC-CH}_2\text{-CHO}$;
3) $\text{CH}_3\text{-CO-COOH}$; * 4) $\text{CH}_3\text{-CO-CH}_2\text{-COOH}$.
219. romel i mJavas maril ebia α -ketogl utaratebi?
- 1) $\text{CH}_3\text{-CO-CH}_2\text{-COOH}$; 2) $\text{HOOC-CO-CH}_2\text{-COOH}$;
3) $\text{HOOC-CO-CH}_2\text{-CH}_2\text{-COOH}$; * 4) OHC-COOH .
220. romel i anionis saxel wodebaa oqsal oacetati?
- 1) $\text{CH}_3\text{-CO-CH}_2\text{-COO}^-$; 2) $^- \text{OOC-CO-CH}_2\text{-COO}^-$; * 3) $\text{CH}_3\text{-CHOH-COO}^-$; 4) OHC-COO^- .
221. romel i anionis saxel wodebaa acetoacetati?
- 1) $\text{CH}_3\text{-CO-CH}_2\text{-COO}^-$; * 2) $^- \text{OOC-CO-CH}_2\text{-COO}^-$; 3) $\text{CH}_3\text{-CHOH-COO}^-$; 4) OHC-COO^- .
222. romel i anionis saxel wodebaa gl ioqsil ati?
- 1) $\text{CH}_3\text{-CO-CH}_2\text{-COO}^-$; 2) $^- \text{OOC-CO-CH}_2\text{-COO}^-$; 3) $\text{CH}_3\text{-CHOH-COO}^-$; 4) OHC-COO^- . *
223. romel i anionis saxel wodebaa piruvati?
- 1) $^- \text{OOC-CHO}$; 2) $^- \text{OOC-CH}_2\text{-CHO}$;
3) $\text{CH}_3\text{-CO-COO}^-$; * 4) $\text{CH}_3\text{-CO-CH}_2\text{-COO}^-$.
224. romel i anionis saxel wodebaa α -ketogl utarati?
- 1) $\text{CH}_3\text{-CO-CH}_2\text{-COO}^-$; 2) $^- \text{OOC-CO-CH}_2\text{-COO}^-$;
3) $^- \text{OOC-CO-CH}_2\text{-CH}_2\text{-COO}^-$; * 4) OHC-COO^- .
225. romel i dihal ogenkarbonmJavebis hidrol iziT warmoiqmneba oqsomJavebi?
- 1) α, α -dihal ogenkarbonmJavebis; * 2) α, β -dihal ogenkarbonmJavebis;
3) α, γ -dihal ogenkarbonmJavebis; 4) nebsmieri dihal ogenkarbonmJavis.
226. CamoTvl il ebidan romel i dihal ogenkarbonmJavebis hidrol iziT warmoiqmneba ketomJava?
- 1) $\text{CH}_3\text{-CCl}_2\text{-CH}_2\text{-COOH}$; * $\text{CH}_3\text{-CHCl-CHCl-COOH}$; 3) $\text{CHCl}_2\text{-CH}_2\text{-CH}_2\text{-COOH}$; 4) sami vesi.
227. CamoTvl il ebidan romel i dihal ogenkarbonmJavebis hidrol iziT warmoiqmneba al dehidmJava?
- 1) $\text{CH}_3\text{-CCl}_2\text{-CH}_2\text{-COOH}$; 2) $\text{CH}_3\text{-CHCl-CHCl-COOH}$; 3) $\text{CHCl}_2\text{-CH}_2\text{-CH}_2\text{-COOH}$; * 4) sami vesi.
228. vercxlis cianidTan romel i naertis urTierTqmedebiT warmoqmniil α -hidroqsinitril ebis hidrol iziT miireba α -oqsomJavebi?
- 1) amidebTan; 2) acil hal ogenidebTan; * 3) rTul eTerebTan; 4) nitril ebTan.
229. CamoTvl il Tagan romel i mJavaa ufro ZI ieri?
- 1) rZemJava; 2) vaSl mJava; 3) ZmarmJava; 4) piroyurZemJava. *
230. romel i naertis dekarbonil irebiT miireba ZmarmJava?
- 1) gl ioqsil mJava; 2) rZemJava; 3) piroyurZemJava; * 4) RvinomJava.
231. oqsomJavebis mJavuri daSl a xorciel deba:
- 1) tutis ganzavebuli wyal xsnaris moqmedebiT;
2) tutis koncentrirebuli wyal xsnaris moqmedebiT;
3) tutis ganzavebuli spirtxsnaris moqmedebiT;
4) tutis koncentrirebuli spirtxsnaris moqmedebiT. *
232. CamoTvl ili naertebidan romlis koncentrirebuli spirtxsnariT xorciel deba oqsomJavebis mJavuri daSl a?
- 1) Na_2CO_3 ; 2) NaOH ; * 3) HCl ; 4) H_2SO_4 .
233. piroyurZemJavas gaxurebiT koncentrirebuli gogirdmJavasTan erTad miireba:
- 1) meTanmJava; 2) eTanmJava; * 3) propanmJava; 4) propanoni.
234. romel i naerti warmoiqmneba yurZemJavas pirol iziT?

- 1) HOOC-CHO; 2) HOOC-CH₂-CHO;
 3) CH₃-CO-COOH; * 4) CH₃-CO-CH₂-COOH.
235. romel i naerTis pirol iziT miiReba piroyurZenmJava?
 1) HOOC-CH₂-C(OH)(COOH)-CH₂-COOH; 2) HOOC-CHOH-CH(COOH)-CH₂-COOH;
 3) HOOC-CH₂-CHOH-COOH; 4) HOOC-CHOH-CHOH-COOH. *
236. romel i mJavadan xdeba organi zmSi mJaunZmarmJavas mi Reba?
 1) ZmarmJavadan; 2) gl utarmJavadan;
 3) l imonmJavadan; 4) vaSl mJavadan. *
237. romel i mJavadan xdeba organi zmSi 2-oqsobutandimJavas mi Reba?
 1) HOOC-CH₂-C(OH)(COOH)-CH₂-COOH; 2) HOOC-CHOH-CH(COOH)-CH₂-COOH;
 3) HOOC-CH₂-CHOH-COOH; * 4) HOOC-CHOH-CHOH-COOH.
238. CamoTvl il i mJavebidan romel i ar arsebobs Tavisufal i saxiT?
 1) gl i kol mJava; 2) gl ioqsil mJava; 3) acetoZmarmJava; 4) formil ZmarmJava. *
239. CamoTvl il i mJavebidan romel i ar arsebobs Tavisufal i saxiT?
 1) HOOC-CHO; 2) HOOC-CH₂-CHO; *
 3) CH₃-CO-COOH; 4) CH₃-CO-CH₂-COOH.
240. cal ke aRebul i romel i mJavas eTeriTaa SeuZl ebel i rTul eTerul i kondensacii T oqsomJavas mi Reba?
 1) ZmarmJavasi; 2) WianWvel mJavasi; * 3) val erianmJavasi; 4) erbomJavasi.
241. romel i oqsomJavebis misaRebad gamoiyeneba rTul eTerul i kondensacii s meTodi?
 1) α-oqsomJavebis; 2) β-oqsomJavebis; * 3) γ-oqsomJavebis; 4) δ-oqsomJavebis.
242. CamoTvl il i mJavebidan romel ia oqsomJava?
 1) l imonmJava; 2) mJaunmJava; 3) rZemJava; 4) mJaunZmarmJava. *
243. CamoTvl il i mJavebidan romel ia oqsomJava?
 1) l imonmJava; 2) piroyurZenmJava; * 3) rZemJava; 4) mJaunmJava.
244. CamoTvl il i mJavebidan romel ia oqsomJava?
 1) l imonmJava; 2) mJaunmJava; 3) rZemJava; 4) formil ZmarmJava. *
245. CamoTvl il i mJavebidan romel ia oqsomJava?
 1) akoni tmJava; 2) gl ioqsil mJava; * 3) rZemJava; 4) gl i kol mJava.
246. romel i naerTisTvis ar aris damaxasiaTebel i keto-enol uri tautomeria?
 1) acetoZmarmJava; 2) barbiturmJava; 3) mJaunZmarmJava; 4) l imonmJava. *
247. romel i naerTisTvis ar aris damaxasiaTebel i keto-enol uri tautomeria?
 1) acetoZmarmJava; 2) gl i kol mJava; * 3) mJaunZmarmJava; 4) barbiturmJava.
248. romel i naerTisTvis aris damaxasiaTebel i keto-enol uri tautomeria?
 1) gl i kol mJava; 2) mJaunZmarmJava; * 3) vaSl mJava; 4) l imonmJava.
249. romel i naerTisTvis aris damaxasiaTebel i keto-enol uri tautomeria?
 1) gl i kol mJava; 2) acetoZmarmJava; * 3) vaSl mJava; 4) l imonmJava.
250. romel i naerTisTvis aris damaxasiaTebel i keto-enol uri tautomeria?
 1) gl i kol mJava; 2) piroyurZenmJava; * 3) vaSl mJava; 4) l imonmJava.
251. romel i naerTisTvis aris damaxasiaTebel i keto-enol uri tautomeria?
 1) HOOC-CHO; 2) HOOC-CH₂-CHO;
 3) CH₃-CO-COOH; * 4) CH₃-CH₂-CH₂-COOH.
252. romel i naerTis pirol iziT miiReba piroyurZenmJava?
 1) HOOC-CH₂-C(OH)(COOH)-CH₂-COOH; 2) HOOC-CO-CH₂-COOH;
 3) HOOC-CH₂-CHOH-COOH; 4) HOOC-CHOH-CHOH-COOH. *
253. romel i oqsomJavebisTvis aris damaxasiaTebel i dekarboqsil ireba?
 1) α- ; 2) β- ; * 3) γ- ; 4) δ- .
254. orfuZiani ketomJavaa:
 1) piroyurZenmJava; 2) mJaunZmarmJava; * 3) acetoZmarmJava; 4) gl ioqsil mJava.
255. romel i naerTi warmoqmni s rkina (III)-is ql oridis xsnarTan iisfer Sefervas?

- 1) pirokateqini; 2) acetoZmarmJavaeTeri; * 3) hidroqinoni; 4) dieTil eTeri.
256. romel i enol uri formaa wonasworobaSi 3-meTil pentan-2,4-dionTan?
- 1) $\text{CH}_3\text{COCH}_2\text{C}(\text{OH})=\text{CH}_2$; 2) $\text{CH}_3\text{C}(\text{OH})=\text{CHCH}_2\text{CH}_3$;
 3) $\text{CH}_2=\text{C}(\text{OH})\text{CH}_2\text{COCH}_3$; 4) $\text{CH}_3\text{COC}(\text{CH}_3)=\text{C}(\text{OH})\text{CH}_3$. *
257. CamoTvl il ebidan romel ia mJaunZmarmJavas enol uri forma?
- 1) $\text{HOOC}-\text{C}(\text{OH})=\text{CH}-\text{COOH}$; * 2) $\text{CH}_3\text{C}(\text{OH})=\text{CH}-\text{COOH}$;
 3) $\text{CH}_2=\text{C}(\text{OH})-\text{COOH}$; 4) $\text{CH}_3\text{COC}(\text{CH}_3)=\text{C}(\text{OH})\text{CH}_3$.
258. CamoTvl il ebidan romel ia acetoZmarmJavas enol uri forma?
- 1) $\text{HOOC}-\text{C}(\text{OH})=\text{CH}-\text{COOH}$; 2) $\text{CH}_3\text{C}(\text{OH})=\text{CH}-\text{COOH}$; *
 3) $\text{CH}_2=\text{C}(\text{OH})-\text{COOH}$; 4) $\text{CH}_3\text{COC}(\text{CH}_3)=\text{C}(\text{OH})\text{CH}_3$.
259. CamoTvl il ebidan romel ia piroyurZenmJavas enol uri forma?
- 1) $\text{HOOC}-\text{C}(\text{OH})=\text{CH}-\text{COOH}$; 2) $\text{CH}_3\text{C}(\text{OH})=\text{CH}-\text{COOH}$;
 3) $\text{CH}_2=\text{C}(\text{OH})-\text{COOH}$; * 4) $\text{CH}_3\text{COC}(\text{CH}_3)=\text{C}(\text{OH})\text{CH}_3$.
260. romel i reagenti ar urTierTqmedebs mJaunZmarmJavasTan?
- 1) Na_2SO_4 ; * 2) NH_2-NH_2 ; 3) NaHSO_3 ; $\text{NH}_2-\text{NH}-\text{CO}-\text{NH}_2$.
261. romel i reagenti ar urTierTqmedebs mJaunZmarmJavasTan?
- 1) NaHSO_3 ; 2) $\text{NH}_2-\text{NH}-\text{C}_6\text{H}_5$; 3) HCl ; * 4) $\text{NH}_2-\text{NH}-\text{CO}-\text{NH}_2$.
262. romel i naerTi urTierTqmedebs mJaunZmarmJavasTan?
- 1) NaCl ; * 2) Na_2SO_4 ; 3) NaHSO_3 ; 4) arcerTi.
263. romel i reagenti ar urTierTqmedebs acetoZmarmJavasTan?
- 1) Na_2SO_4 ; * 2) NH_2-NH_2 ; 3) NaHSO_3 ; $\text{NH}_2-\text{NH}-\text{CO}-\text{NH}_2$.
264. romel i reagenti ar urTierTqmedebs acetoZmarmJavasTan?
- 1) NaHSO_3 ; 2) $\text{NH}_2-\text{NH}-\text{C}_6\text{H}_5$; 3) HCl ; * 4) $\text{NH}_2-\text{NH}-\text{CO}-\text{NH}_2$.
265. romel i naerTi urTierTqmedebs acetoZmarmJavasTan?
- 1) NaCl ; * 2) Na_2SO_4 ; 3) NaHSO_3 ; 4) arcerTi.
266. romel i reagenti ar urTierTqmedebs piroyurZenmJavasTan?
- 1) Na_2SO_4 ; * 2) NH_2-NH_2 ; 3) NaHSO_3 ; $\text{NH}_2-\text{NH}-\text{CO}-\text{NH}_2$.
267. romel i reagenti ar urTierTqmedebs piroyurZenmJavasTan?
- 1) NaHSO_3 ; 2) $\text{NH}_2-\text{NH}-\text{C}_6\text{H}_5$; 3) HCl ; * 4) $\text{NH}_2-\text{NH}-\text{CO}-\text{NH}_2$.
268. romel i naerTi urTierTqmedebs piroyurZenmJavasTan?
- 1) NaCl ; * 2) Na_2SO_4 ; 3) NaHSO_3 ; 4) arcerTi.
269. romel i reagenti ar urTierTqmedebs mJaunZmarmJavasTan?
- 1) meTanol i; 2) cianwyal badmJava; 3) hidrazini; 4) maril mJava. *
270. romel i reagenti ar urTierTqmedebs mJaunZmarmJavasTan?
- 1) meTanol i; 2) cianwyal badmJava; 3) hidrazini; 4) maril mJava. *
271. romel i reagenti ar urTierTqmedebs gl i oqsil mJavasTan?
- 1) fosformJava; * 2) cianwyal badmJava; 3) hidrazini; 4) hidroqsil amini.
272. romel i reagenti ar urTierTqmedebs acetoZmarmJavasTan?
- 1) fosformJava; * 2) cianwyal badmJava; 3) hidrazini; 4) hidroqsil amini.
273. romel i reagenti ar urTierTqmedebs acetoZmarmJavasTan?
- 1) fosformJava; * 2) cianwyal badmJava; 3) hidrazini; 4) hidroqsil amini.
274. romel i naerTis antimetabol itebia sul fanil amiduri preparatebi?
- 1) orTo-aminobenzomJavasi; 2) meta-aminobenzomJavasi;
 3) para-aminobenzomJavasi; * 4) orTo-hidroqsi benzomJavasi.
275. romel i naerTis antimetabol itebia sul fanil amiduri preparatebi?



276. CamoTvl il i romel i erTi naerTidan aris SeuZl ebel i rTul eTerul i kondensaciit β -oqsomJavis miReba?

- 1) eTil benzoatidan; * 2) eTil acetatidan;
3) eTil val eratanidan; 4) eTil butiratidan.

277. CamoTvl il i romel i erTi naerTidan aris SeuZl ebel i rTul eTerul i kondensaciit β -oqsomJavis miReba?

- 1) dieTil oqsal atidan; * 2) eTil acetatidan;
3) eTil val eratanidan; 4) eTil butiratidan.

278. CamoTvl il i romel i erTi naerTidan aris SeuZl ebel i rTul eTerul i kondensaciit β -oqsomJavis miReba?

- 1) eTil formiatidan; * 2) eTil acetatidan;
3) eTil val eratanidan; 4) eTil butiratidan.

279. CamoTvl il i romel i erTi naerTidan aris SesaZl ebel i rTul eTerul i kondensaciit β -oqsomJavis miReba?

- 1) eTil formiatidan; * 2) eTil acetatidan;
2) eTil oqsal atidan; 4) eTil benzoatidan.

280. CamoTvl il i romel i erTi naerTidan aris SesaZl ebel i rTul eTerul i kondensaciit β -oqsomJavis miReba?

- 1) eTil formiatidan; * 2) eTil butiratidan;
2) eTil oqsal atidan; 4) eTil benzoatidan.

281. CamoTvl il i romel i erTi naerTidan aris SesaZl ebel i rTul eTerul i kondensaciit β -oqsomJavis miReba?

- 1) eTil formiatidan; * 2) meTil val eratanidan;
2) eTil oqsal atidan; 4) eTil benzoatidan.

282. CamoTvl il i romel i erTi naerTidan aris SesaZl ebel i rTul eTerul i kondensaciit β -oqsomJavis miReba?

- 1) eTil formiatidan; * 2) meTil butiratidan;
2) eTil oqsal atidan; 4) eTil benzoatidan.

283. CamoTvl il i tautomeriebidan romel ia damaxasiaTebel i mJaunZmarmJavaSaTvis?

- 1) amino-iminuri; 2) keto-enol uri; * 3) cikli o-oqso; 4) l aqtim-l aqtamuri.

284. CamoTvl il i tautomeriebidan romel ia damaxasiaTebel i acetoZmarmJavaeTerisaTvis?

- 1) amino-iminuri; 2) keto-enol uri; * 3) cikli o-oqso; 4) l aqtim-l aqtamuri.

285. CamoTvl il i tautomeriebidan romel ia damaxasiaTebel i piroyurZenmJavaSaTvis?

- 1) amino-iminuri; 2) keto-enol uri; * 3) cikli o-oqso; 4) l aqtim-l aqtamuri.

286. CamoTvl il i oqsomJavebidan romel i ganicdis yvel aze advil ad dekarboqsil irebas?

- 1) α -oqsomJavebi; 2) β -oqsomJavebi; * 3) γ -oqsomJavebi; 4) δ -oqsomJavebi.

287. CamoTvl il i mJavebidan roml is eTil eTeri monawil eobs e.w. mJavur daSl aSi?

- 1) mJaunZmarmJava; 2) acetoZmarmJava; * 3) gl i oqsil mJava; 4) l imonmJava.

288. CamoTvl il i mJavebidan roml is eTil eTeri monawil eobs e.w. mJavur daSl aSi?

- 1) HOOC-CHO; 2) HOOC-CH₂-CHO;
3) CH₃-CO-COOH; 4) CH₃-CO-CH₂-COOH. *

289. CamoTvl il i reagentebidan romel i monawil eobs sawyis etapze Canacvl ebul i acetoZmarmJavaeTeris e.w. mJavur daSI aSi?

- 1) NaCl; 2) HCl; 3) NaOH; * 4) NaClO.

290. CamoTvl il i reagentebidan romel i monawil eobs sawyis etapze acetoZmarmJavaeTeris e.w. mJavur daSI aSi?

- 1) NaCl; 2) HCl; 3) NaOH; * 4) NaClO.

291. CamoTvl il i reagentebidan romel i monawil eobs sawyis etapze Canacvl ebul i acetoZmarmJavaeTeris e.w. ketonur daSI aSi?

- 1) NaCl; 2) HCl; 3) NaOH; * 4) CH₃CO-CH₃.

292. meTil Canacvl ebul i acetoZmarmJavaeTeris e.w. ketonuri daSI is sabol oo produqtia:

- 1) acetondikarbonmJava; 2) butanal i; 3) propanoni; 4) butanoni. *

293. acetoZmarmJavaeTeris e.w. mJavuri daSI is sabol oo produqtia:

- 1) acetondikarbonmJava; 2) ZmarmJava; * 3) acetoni; 4) erbomJava.

294. meTil Canacvl ebul i acetoZmarmJavaeTeris e.w. mJavuri daSI is sabol oo produqtia:

- 1) acetondikarbonmJava; 2) ZmarmJava; 3) acetoni; 4) propionmJava. *

295. romel i mJavas daJangvi T miiReba mJaunZmarmJava?

- 1) I imonmJava; 2) RvinomJava; 3) vaSI mJava; * 4) α-ketogl utarmJava.

296. romel i mJava miiReba vaSI mJavas daJangvi T?

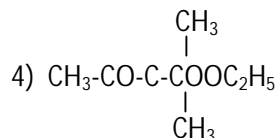
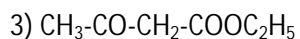
- 1) mJaunZmarmJava; * 2) RvinomJava; 3) acetoZmarmJava; 4) α-ketogl utarmJava.

297. CamoTvl il i naerTebidan roml is enol uri formaa ufro stabil uri?

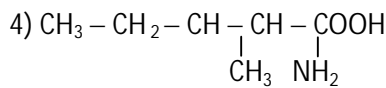
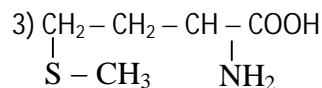
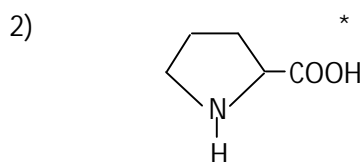
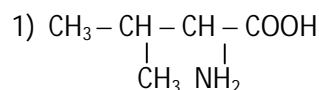
- 1) piroyurZenmJava; 2) acetoZmarmJava; 3) mJaunZmarmJava; * 4) α-ketogl utarmJava.

298. romel i naerTisTvisaa SeuZI ebel i keto-enol uri tautomeria?

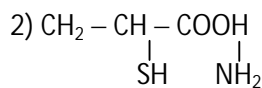
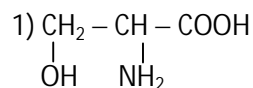
- 1) HOOC-CH₂-CO-COOH 2) CH₃-CH₂-CO-CH₂-COOH

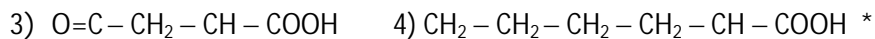


299. CamoTvl il i aminomJavebi dan romel i ar aris Seucvl el i?

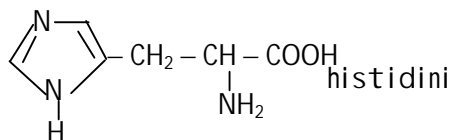
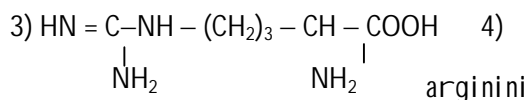
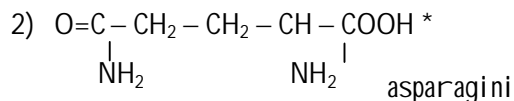
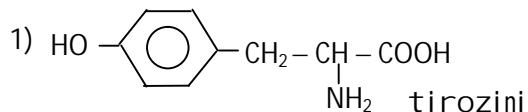


300. CamoTvl il i aminomJavebi dan romel ia Seucvl el i?





301. რომელი ამინომჟავის სტრუქტურული ფორმულაა?



302. რომელი ამინომჟავის სტრუქტურული ფორმულაა?

1) ვალინი; 2) ასპარაგინი; * 3) მეთიონინი; 4) ლეიცინი.

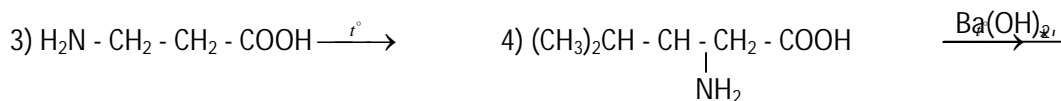
303. რომელი ამინომჟავის სტრუქტურული ფორმულაა?

1) გლუტამინი; 2) ლეიცინი; 3) ალანინი; 4) არგინინი. *

304. ასპარაგინის სტრუქტურული ფორმულა pH=12-ზე რომელია?



305. რომელია ამინომჟავის დეკარბოქსილირების რეაქცია?

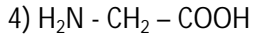
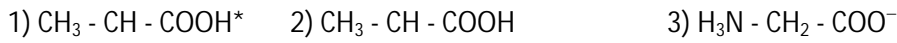


306. რომელია ამინომჟავის პეპტიდური ბმის ტიპი?

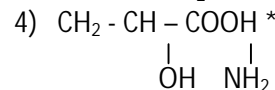
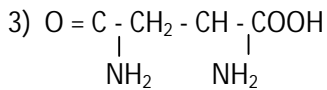
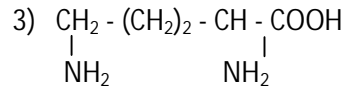
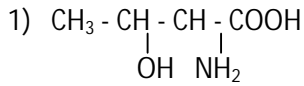
- 1) ჰიდროლიზდება როგორც ტუტე, ისე მჟავა არეში;
- 2) C-N ბმის გარშემო ბრუნვა გაზნელდებულია;
- 3) პეპტიდური ჯგუფი წარმოადგენს სამცენტრიან p,π-სეურის ებულ სისტემას;
- 4) C=O ბმა მოკლდება 0,121 ნმ-მდე (წვეულ ებრვიტი 0,124 ნმ-ის ტოლია). *

307. რომელია ამინომჟავის პროდუქტი მისი დიპეტიდის Ala-Gly-ის ჰიდროლიზის შედეგად მისი მჟავა არეში?

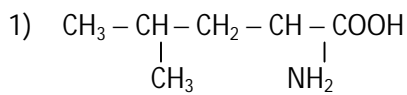




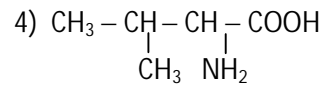
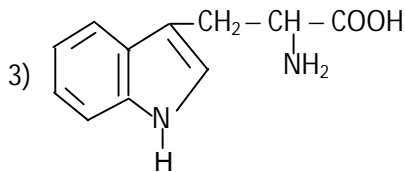
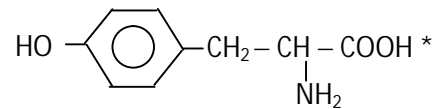
308. romel i aminomJava warmoiqmneba tripeptidis Lys-Ser-Asn sruli mJavuri hidrol izis dros?



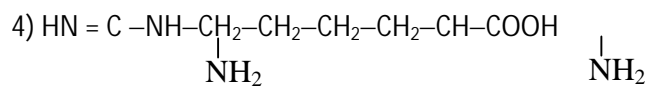
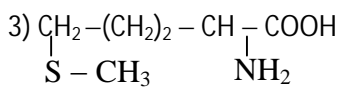
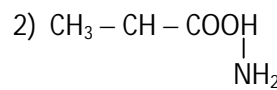
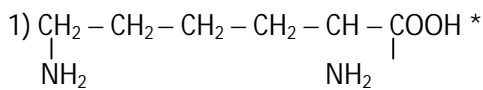
309. CamoTvl il i aminomJavebidan romel i ar aris Seucvl el i?



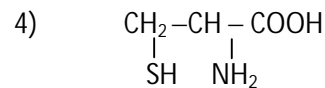
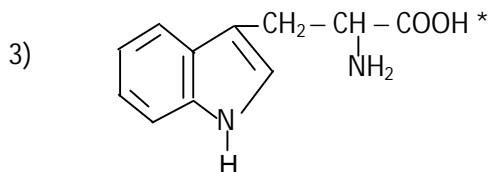
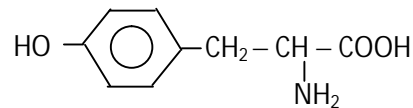
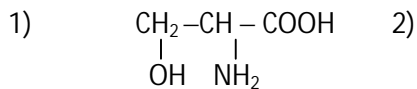
2)



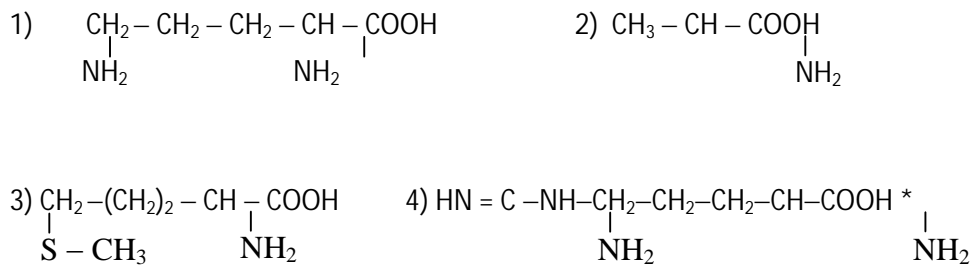
310. CamoTvl il i aminomJavebidan romel ia Seucvl el i?



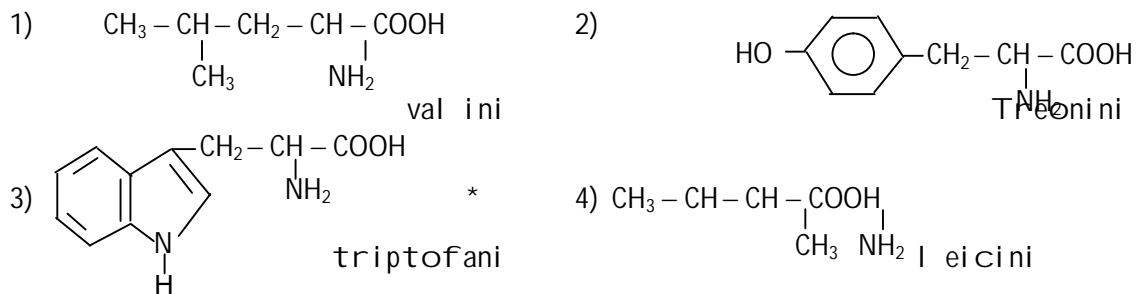
311. CamoTvl il i aminomJavebidan romel ia hidrofoburi?



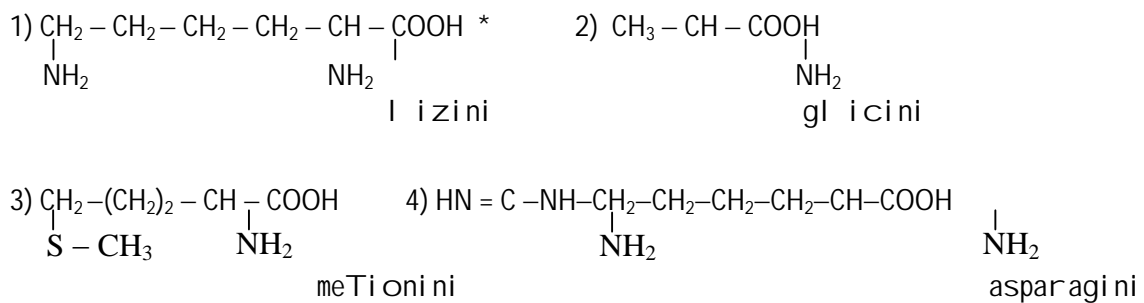
312. CamoTvl il i aminomJavebidan romel ia Seucvl el i?



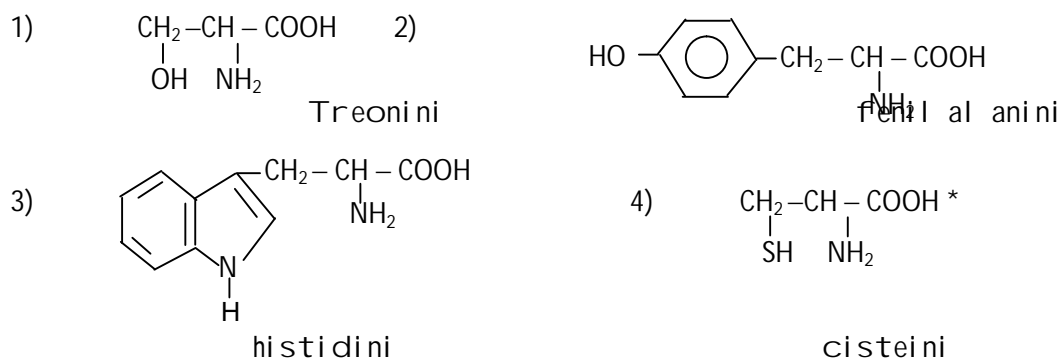
313. romel SemTxvevaSi Seesabameba aminomJavas saxel wodeba formul as?



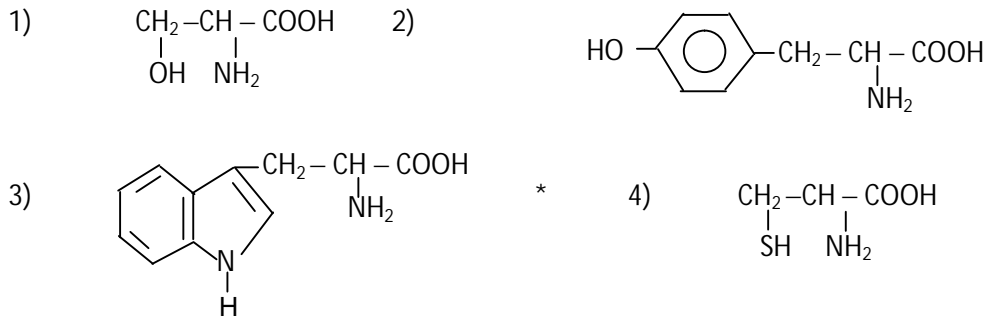
314. romel SemTxvevaSi Seesabameba aminomJavas saxel wodeba formul as?



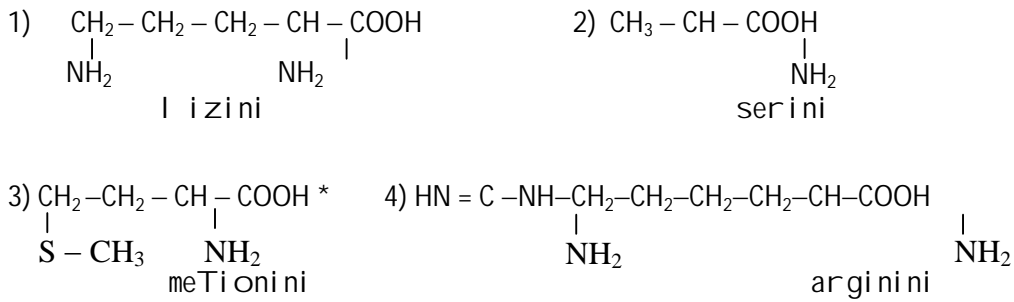
315. romel SemTxvevaSi Seesabameba aminomJavas saxel wodeba formul as?



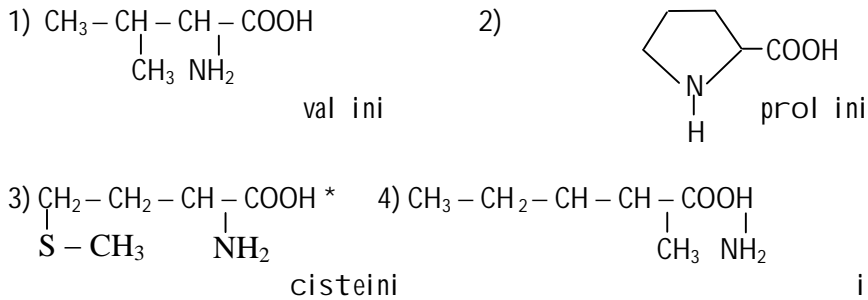
316. CamoTvl il i aminomJavebidan romel ia hidrofoburi?



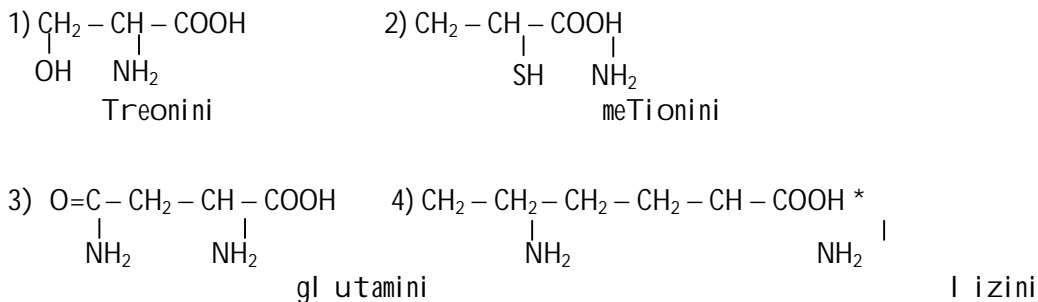
317. romel SemTxvevaSi Seesabameba aminomJavas saxel wodeba formul as?



318. romel SemTxvevaSi ar Seesabameba saxel wodebas aminomJavas formul a?



319. romel SemTxvevaSi Seesabameba saxel wodebas aminomJavas formul a?



320. CamoTvl il i aminomJavebidan romel ia dadebiTad damuxtul i pH-is fiziologiuri mniSvel obis dros?

339. romel aminomJavas gaaCnia izoel eqtrul i wertil i tute areSi?
 1) Leu; 2) Met; 3) Phe; 4) His. *
340. romel i mJava mi iReba gl utaminmJavas monodekarboqsil i rebis Sedegad?
 1) 3-aminobutanmJava; 2) 2-aminobutanmJava;
 3) 4-aminobutanmJava; * 4) 3-aminopropanmJava.
341. romel i mJava mi iReba asparaginmJavas monodekarboqsil i rebis Sedegad?
 1) 3-aminobutanmJava; 2) 2-aminobutanmJava;
 3) 2-aminopropanmJava; 4) 3-aminopropanmJava. *
342. romel i aminomJavas monodekarboqsil i rebis Sedegad warmoiqmneba
 3-aminobutanmJava?
 1) Asn; 2) Asp; * 3) Ala; 4) Leu.
343. romel i aminomJavas monodekarboqsil i rebis Sedegad warmoiqmneba
 4-aminobutanmJava?
 1) Gln; 2) Glu; * 3) Gly; 4) Ser.
344. romel i aminomJava gadaadgil deba anodisken el eqtroforezis Catarebisas pH=6
 pirobekSi (frCxil ebSi miTiTebul ia aminomJavas izoel eqtrul i wertil i)?
 1) Gly (6); 2) Val (6); 3) Glu (3,2);* 4) Lys (9,7).
345. romel i aminomJava gadaadgil deba anodisken el eqtroforezis Catarebisas pH=6
 pirobekSi (frCxil ebSi miTiTebul ia aminomJavas izoel eqtrul i wertil i)?
 1) Ile (6); 2) Pro (6); 3) Ala (6); 4) Asp (3).*
346. romel i aminomJava gadaadgil deba kaTodisken el eqtroforezis Catarebisas
 pH=6 pirobekSi (frCxil ebSi miTiTebul ia aminomJavas izoel eqtrul i wertil i)?
 1) Asp (3); 2) Arg (10,8);* 3) Gly (6); 4) Leu (6)
348. romel i aminomJava gadaadgil deba kaTodisken el eqtroforezis Catarebisas
 pH=6 pirobekSi(frCxil ebSi miTiTebul ia aminomJavas izoel eqtrul i wertil i)?
 1) Glu (3,2); 2) Phe (6); 3) His (7,6);* 4) Leu (6)
349. romel i aminomJava gadaadgil deba kaTodisken el eqtroforezis Catarebisas
 pH=6 pirobekSi(frCxil ebSi miTiTebul ia aminomJavas izoel eqtrul i wertil i)?
 1) Glu (3,2); 2) Phe (6); 3) Lys (9,7);* 4) Leu (6)
350. romel i naerTi ar warmoqmnis qel atur kompl eqss spil enZ(II)-is hidroqsidTan
 urTierTqmedebis Sedegad?
 1) gl icerini; 2) RvinomJava; 3) eTil engl ikol i; 4) ZmarmJava.*
351. romel i naerTi warmoqmnis qel atur kompl eqss spil enZ(II)-is hidroqsidTan
 urTierTqmedebis Sedegad?
 1) eTanol i; 2) ZmarmJava; 3) eTil amini; 4) al anini. *
352. romel i naerTi warmoqmnis qel atur kompl eqss spil enZ(II)-is hidroqsidTan
 urTierTqmedebis Sedegad?
 1) eTanol i; 2) 2-aminopropanmJava; * 3) 2-oqsopropanmJava; 4) ZmarmJava.
353. CamoTvl il i naerTebidan romel i warmoqmnis qel atur kompl eqss
 α -aminomJavebTan reagirebisas?
 1) spil enZ(II)-is hidroqsidi; * 2) kal ciumis hidroqsidi;
 3) kal iumis hidroqsidi; 4) natriumis hidroqsidi.
354. CamoTvl il i aminomJavebidan romel i warmoqmnis qel atur kompl eqss
 spil enZ(II)-is hidroqsidTan urTierTqmedebis Sedegad?
 1) mxol od α -; 2) mxol od β -;
 3) mxol od γ -; 4) rogorc α -, ise β -. *
355. CamoTvl il i aminomJavebidan romel i warmoqmnis qel atur kompl eqss
 spil enZ(II)-is hidroqsidTan urTierTqmedebis Sedegad?
 1) 3-aminohetpanmJava; * 2) 4-aminohetpanmJava;
 3) 5-aminohetpanmJava; 4) 6-aminohetpanmJava;

356. CamoTvl il i aminomJavebidan romel i warmoqmni s qel atur kompl eqss spil enZ(II)-is hi droqsi dTan urTierTqmedebis Sedegad?
 1) 2-ami noheqsanmJava; * 2) 4-ami noheqsanmJava;
 3) 5-ami noheqsanmJava; 4) 6-ami noheqsanmJava;
357. CamoTvl il i aminomJavebidan romel i warmoqmni s gaxurebi sas di ketopi perazins?
 1) α - ; 2) β - ; 3) γ - ; 4) δ - .
358. CamoTvl il i aminomJavebidan romel i warmoqmni s gaxurebi sas di ketopi perazins?
 1) 2-ami noheqsanmJava; * 2) 4-ami noheqsanmJava;
 3) 5-ami noheqsanmJava; 4) 6-ami noheqsanmJava;
359. CamoTvl il i aminomJavebidan romel i warmoqmni s gaxurebi sas uj er mJavas?
 1) α - ; 2) β - ; * 3) γ - ; 4) δ - .
360. CamoTvl il i aminomJavebidan romel i warmoqmni s gaxurebi sas uj er mJavas?
 1) 2-ami noheqsanmJava; 2) 3-ami noheqsanmJava; *
 3) 5-ami noheqsanmJava; 4) 6-ami noheqsanmJava;
361. CamoTvl il i aminomJavebidan romel i warmoqmni s gaxurebi sas l aqtams?
 1) α - ; 2) β - ; 3) γ - ; * 4) arcerTi .
362. CamoTvl il i aminomJavebidan romel i warmoqmni s gaxurebi sas l aqtams?
 1) 2-ami noheqsanmJava; 2) 3-ami noheqsanmJava;
 3) 2-ami no-3-meTil heqsanmJava; 4) 4-ami noheqsanmJava. *
363. CamoTvl il i aminomJavebidan romel i warmoqmni s gaxurebi sas xazovan pol iami ds?
 1) α - ; 2) ε - ; * 3) γ - ; 4) δ - .
364. CamoTvl il i aminomJavebidan romel i warmoqmni s gaxurebi sas xazovan pol iami ds?
 1) α - ; 2) β - ; 3) γ - ; 4) λ - . *
365. CamoTvl il i aminomJavebidan romel i warmoqmni s gaxurebi sas xazovan pol iami ds?
 1) ε - ; * 2) δ - ; 3) γ - ; 4) α - .
366. CamoTvl il i aminomJavebidan romel i warmoqmni s gaxurebi sas xazovan pol iami ds?
 1) 2-ami nooqtanmJava; 2) 4-ami nooqtanmJava;
 3) 5-ami nooqtanmJava; 4) 8-ami nooqtanmJava; *
367. CamoTvl il i aminomJavebidan romel i ar warmoqmni s gaxurebi sas xazovan pol iami ds?
 1) σ - ; 2) β - ; * 3) λ - ; 4) ε - .
368. CamoTvl il i aminomJavebidan romel i ar warmoqmni s gaxurebi sas xazovan pol iami ds?
 1) λ - ; 2) δ - ; * 3) μ - ; 4) σ - .
369. romel i mJaviT SeiZl eba tirozinis aRmoCena?
 1) maril mJavaTi; 2) gogirdmJavaTi;
 3) azotmJavaTi; * 4) fosformJavaTi.
370. romel i mJaviT SeiZl eba triptofanis amoCena?
 1) maril mJavaTi; 2) gogirdmJavaTi;
 3) azotmJavaTi; * 4) fosformJavaTi.
371. CamoTvl il i aminomJavebidan roml is aRmoCena SeiZl eba azotmJavaTi?
 1) Asp; 2) Thr; 3) Tyr; * 4) Lys.
372. CamoTvl il i aminomJavebidan roml is aRmoCena SeiZl eba azotmJavaTi?
 1) Asp; 2) Thr; 3) Trp; * 4) Lys.
373. romel reaqcias iyeneben praqtikaSi aminomJavebis raodenobrivi gansazRvr isatvi s?

- 1) spirtebiTerificireba; 2) dekarboqsilirebis reaqcia;
 3) reaqcia azotovanmJavasTan; 4) reaqcia formal dehidTan. *
374. romel naerTs iyeneben praqtikaSi aminomJavebis raodenobrivi gansazRvrisaTvis?
 1) meTanal s; * 2) eTanal s; 3) propanal s; 4) butanal s.
375. romel naerTs iyeneben praqtikaSi aminomJavebis raodenobrivi gansazRvrisaTvis?
 1) HCHO; * 2) CH₃CHO; 3) CH₃OH; 4) CH₃COOH.
376. romel naerTebis raodenobrivi gansazRvrisaTvis iyeneben praqtikaSi formal dehids?
 1) karbonil uri naerTebis; 2) naxSirwyl ebis; 3) aminomJavebis; * 4) steroidebis.
377. romel naerTs iyeneben formol uri gatitvrisas?
 1) meTanal s; * 2) eTanal s; 3) propanal s; 4) butanal s.
378. romel naerTs iyeneben formol uri gatitvrisas?
 1) HCHO; * 2) CH₃CHO; 3) CH₃OH; 4) CH₃COOH.
379. romel i naerTi warmoqmnis dekarboqsil irebiTa da miRebuli produqtis azotovanmJavasTan urTierTqmedebiTeTil englikol s?
 1) Ala; 2) Ser; * 3) Phe; 4) Leu.
380. romel i gazi gamoiyofa α -aminomJavas azotovanmJavasTan reagirebisas?
 1) N₂O; 2) NO₂; 3) N₂; * 4) NH₃.
381. romel i gazi gamoiyofa al aninis azotovanmJavasTan reagirebisas?
 1) N₂O; 2) NO₂; 3) N₂; * 4) NH₃.
382. romel i gazi gamoiyofa serinis azotovanmJavasTan reagirebisas?
 1) N₂O; 2) NO₂; 3) N₂; * 4) NH₃.
383. romel i gazi gamoiyofa tirozinis azotovanmJavasTan reagirebisas?
 1) N₂O; 2) NO₂; 3) N₂; * 4) NH₃.
384. romel naerTTan reagirebisas gamoyofs α -aminomJava azots?
 1) azotmJava; 2) azotovanmJava; *
 3) gogirdovanmJava; 4) marilmJava;
385. romel naerTTan reagirebisas gamoyofs α -aminomJava azots?
 1) HNO₃; 2) HNO₂; * 3) NH₃; 4) NH₂OH.
386. Sifis fuzeebi miReba α -aminomJavebis urTierTqmedebiT:
 1) spirtebTan; 2) mineral ur mJavebTan;
 3) al dehidTan; * 4) fenol ebTan.
387. Sifis fuzeebi miReba serinis urTierTqmedebiT:
 1) spirtebTan; 2) mineral ur mJavebTan;
 3) al dehidTan; * 4) fenol ebTan.
388. Sifis fuzeebi miReba al aninis urTierTqmedebiT:
 1) spirtebTan; 2) mineral ur mJavebTan;
 3) al dehidTan; * 4) fenol ebTan.
389. Sifis fuzeebi miReba fenil al aninis urTierTqmedebiT:
 1) spirtebTan; 2) mineral ur mJavebTan;
 3) al dehidTan; * 4) fenol ebTan.
390. asparaginis romel naerTTan urTierTqmedebiT miReba Canacvl ebuli iminebi?
 1) KOH; 2) CH₃CHO; * 3) CH₃OH; 4) CH₃COOH.
391. argininis romel naerTTan urTierTqmedebiT miReba Canacvl ebuli iminebi?
 1) KOH; 2) CH₃CHO; * 3) CH₃OH; 4) CH₃COOH.
392. histidinis romel naerTTan urTierTqmedebiT miReba Canacvl ebuli iminebi?
 1) KOH; 2) CH₃CHO; * 3) CH₃OH; 4) CH₃COOH.
393. fenil al anininis romel naerTTan urTierTqmedebiT miReba Sifis fuze?

- 1) KOH; 2) CH₃CHO; * 3) CH₃OH; 4) CH₃COOH.
394. al aninis romel naer TTan urTierTqmedebi T miReba Sifis fuZe?
- 1) KOH; 2) CH₃CHO; * 3) CH₃OH; 4) CH₃COOH.
395. serinis romel naer TTan urTierTqmedebi T miReba Sifis fuZe?
- 1) KOH; 2) CH₃CHO; * 3) CH₃OH; 4) CH₃COOH.
396. meTioninis romel naer TTan urTierTqmedebi T miReba Sifis fuZe?
- 1) KOH; 2) CH₃CHO; * 3) CH₃OH; 4) CH₃COOH.
397. al dehidebTan romel i naerTebis urTierTqmedebi T miReba Sifis fuZeebi?
- 1) aminomJavebis; * 2) hidroqsimJavebis;
3) karbonmJavebis; 4) fenol ebis.
398. Canacvl ebul i iminebi miReba aminomJavebis urTierTqmedebi T:
- 1) spirtebTan; 2) mineral ur mJavebTan;
3) al dehidebTan; * 4) fenol ebTan.
399. al dehidebTan romel i naerTebis urTierTqmedebi T miReba Canacvl ebul i iminebi?
- 1) aminomJavebis; * 2) hidroqsimJavebis;
3) karbonmJavebis; 4) fenol ebis.
400. CamoTvl ili aminomJavebidan romel i ar warmoiqmneba tripeptidis Lys-Ser-Asn sruli mJavuri hidrol izis dros?
- 1) Asn; * 2) Lys; 3) Ser; 4) Asp.
401. CamoTvl ili aminomJavebidan romel i ar warmoiqmneba tripeptidis Thr-Phe-Gln sruli mJavuri hidrol izis dros?
- 1) Thr 2) Phe; 3) Gln; * 4) Glu.
402. moyvanili formul ebidan romel i Seesabameba C₂H₅NO₂ Sedgenil obis naerTs, romel ic advilad ixsneba mJavebsa da tuteebSi, xolo gaxurebisas warmoqmnis diketopi perazins?
- 1) CH₃-CH₂-NO₂; 2) CH₂OH-CONH₂;
3) CH₂NH₂-COOH; * 4) CH₂OH-CH₂NO.
403. CamoTvl ili aminomJavebidan romel i emateba bavSvTa asakSi Seucvl el aminomJavebs?
- 1) Ala; 2) His; * 3) Pro; 4) Tyr.
404. CamoTvl ili aminomJavebidan romel i emateba bavSvTa asakSi Seucvl el aminomJavebs?
- 1) Arg; * 2) Glu; 3) Pro; 4) Tyr.
405. Strekeris sinTeziT α-aminomJavebis miRebisas amiakTan da cianwyal badmJavaTan reaqciaSi SehyavT:
- 1) karbonmJavebi; 2) al dehidebi; * 3) spirtebi; 4) aminebi.
406. Strekeris sinTeziT α-aminomJavebis miRebisas amiakTan da al dehidTan erTad monawil eobs:
- 1) cianwyal badmJava; * 2) ql orwyal badmJava;
3) bromwyal badmJava; 4) gogirdmJava.
407. Strekeris sinTeziT α-aminomJavebis miRebisas amiakTan da al dehidTan erTad monawil eobs:
- 1) HCl; 2) HCN; * 3) HBr; 4) H₂SO₄.
408. Strekeris sinTezis intermediatia:
- 1) α-hidroqsinitril ebi; 2) α-aminonitril ebi; *
3) α-hidroqsial dehidebi; 4) aminebi.
409. amiakis Tanaobisas romel i naerTis hidrirebiT warmoiqmneba α-aminomJava?
- 1) CH₃CHOHCOOH; 2) CH₃COCOOH; * 3) CH₃CHO; 4) CH₃NO₂;

410. როდნოვის რეაქციით β -ამინომჟავები მიიღება ამიაკის ტანობისას ალდეჰიდების ურთიერთქმედებით:

- 1) გარვამჟავათან; 2) მალონჟავათან; *
3) გლუტარმჟავათან; 4) ზმარმჟავათან.

411. როდნოვის რეაქციით რომელ რეაგენტთან ურთიერთქმედებისას წარმოიქმნება β -ამინომჟავები ალდეჰიდი, ამიაკის ტანობისას?

- 1) HOOC-COOH ; 2) $\text{HOOC-CH}_2\text{-COOH}$; * 3) $\text{HOOC-CH}_2\text{-CH}_2\text{-COOH}$; 4) HOOC-CH=CH-COOH .

412. როდნოვის რეაქციით β -ამინომჟავები მიიღება ამიაკის ტანობისას მალონჟავათან ურთიერთქმედებით:

- 1) ალდეჰიდთან; * 2) სპირტთან;
3) კარბონმჟავებთან; 4) ამინებთან.

413. ალდეჰიდი მიიღება α -ამინომჟავების ურთიერთქმედებით თუთიყუდის მეტალთან:

- 1) გლორიდთან; 2) გლორატთან;
3) პერგლორატთან; 4) ჰიპოგლორიტთან. *

414. რომელ რეაგენტთან ურთიერთქმედებისას წარმოიქმნება α -ამინომჟავები ალდეჰიდები?

- 1) NaCl ; 2) NaClO ; * 3) NaClO_3 ; 4) NaNH_2 .

415. α -ამინომჟავების ურთიერთქმედებით თუთიყუდის მეტალთან ჰიპოგლორიტთან მიიღება:

- 1) ალდეჰიდი; * 2) სპირტი; 3) კარბონმჟავები; 4) ამინები.

416. α -ამინომჟავების ურთიერთქმედებით თუთიყუდის მეტალთან ჰიპოგლორიტთან მიიღება:

- 1) R-CO-R ; 2) RCHO ; * 3) RCOOH ; 4) RNH_2 .

417. რომელი მჟავა გამოიყენება ვან-სლანის მეთოდით ამინომჟავათა რაოდენობრივი განსაზღვრისას?

- 1) გოგირდმჟავა; 2) გოგირდოვანმჟავა; 3) აზოვანმჟავა; * 4) აზოტმჟავა.

418. რომელი მჟავა გამოიყენება ვან-სლანის მეთოდით ამინომჟავათა რაოდენობრივი განსაზღვრისას?

- 1) HNO_3 ; 2) HNO_2 ; * 3) HCl ; 4) H_2SO_4 .

419. ვან-სლანის მეთოდით რომელ ნაერთთან რაოდენობრივი განსაზღვრისას გამოიყენება აზოვანმჟავა?

- 1) ჰიდროქსიმჟავები; 2) ამინომჟავები; * 3) აზოვანმჟავა; 4) აზოტმჟავა.

420. რომელი ამინომჟავა დეკარბოქსილირებით მიიღება კოლმინი?

- 1) ლიზინი; 2) სერინი; * 3) გლუტამინი; 4) ტრეონინი.

421. ზოგიერთი α -ამინომჟავა არმოსაცენად შეიძლება გამოვიყენოთ:

- 1) ნატრიუმის ჰიდროქსიდი; 2) აზოტმჟავა; *
3) მარილმჟავა; 4) ფოსფორმჟავა.

422. ზოგიერთი α -ამინომჟავა არმოსაცენად შეიძლება გამოვიყენოთ:

- 1) HNO_3 ; * 2) HNO_2 ; 3) HCl ; 4) H_2SO_4 .

423. რომელი ამინომჟავასაგან წარმოიქმნება ორგანიზმში კოლმინი?

- 1) ალანინი; 2) გლიცინი; 3) სერინი; * 4) ლეიცინი.

424. რომელი რეაგენტის გამოყენება შეიძლება ფენილალანინისა და ტიროზინის ერთმანეთისაგან განსასხვავებლად?

- 1) NaNO_3 ; 2) HNO_2 ; 3) NaCl ; 4) FeCl_3 . *

425. რკინა(III)-ის გლორიდის გამოყენებით შეიძლება ერთმანეთისაგან განსასხვავოთ:

- 1) ფენილალანინი და ტიროზინი; * 2) ტრიპტოფანი და სერინი;
3) ლეიცინი და ლიზინი; 4) არგინინი და გლიცინი.

426. პეპტიდური ბმა წარმოადგენს:

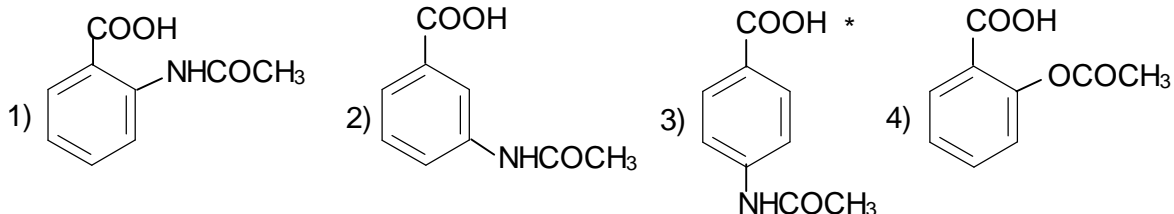
- 1) სამცენტრიან π, π -სეურილ ებულ სისტემას; 2) სამცენტრიან p, π -სეურილ ებულ სისტემას; *
3) ოტცენტრიან π, π -სეურილ ებულ სისტემას; 4) ოტცენტრიან p, π -სეურილ ებულ სისტემას.

427. რომელი ამინომჟავა არმოსაცენად იყენებენ პეპტიდების თუთიყუდისაგან?

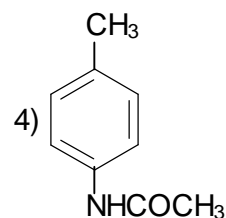
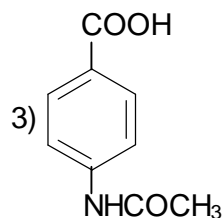
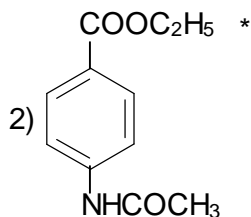
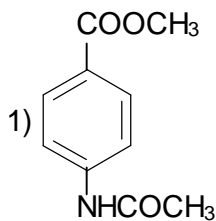
- 1) Thr; 2) Tyr; 3) Trp; * 4) Lys.

428. romel dipeptidSi SeuZl ia peptiduri bmis gawyveta tripsins?
 1) Lys-Arg; * 2) Trp-Asp; 3) Val-Ile; 4) Glu-Ser.
429. romel dipeptidSi SeuZl ia peptiduri bmis gawyveta tripsins?
 1) Glu-Ser; 2) Lys-Ile; * 3) Val-Trp; 4) Arg-Pro.
430. romel dipeptidSi SeuZl ia peptiduri bmis gawyveta tripsins?
 1) Ser-Arg; * 2) Trp-Asn; 3) Val-Ile; 4) Glu-Ser.
431. romel dipeptidSi SeuZl ia peptiduri bmis gawyveta qimotripsins?
 1) Glu-Ser; 2) Gly-Tyr; * 3) Val-Ile; 4) Pro-Arg.
432. romel dipeptidSi SeuZl ia peptiduri bmis gawyveta qimotripsins?
 1) Ile- Val; 2) Lys-Ser; 3) Met -Gly; 4) Phe-His. *
433. romel dipeptidSi SeuZl ia peptiduri bmis gawyveta qimotripsins?
 1) Glu-Ser; 2) Gly-Ile; 3) Val-Trp; * 4) Pro-Arg.
434. romel dipeptidSi ar SeuZl ia peptiduri bmis gawyveta pepsins?
 1) Ala-Val; 2) Ala-Phe; 3) Ile-Met; 4) Ile-Gly. *
435. romel dipeptidSi SeuZl ia peptiduri bmis gawyveta pepsins?
 1) Asn-Leu; 2) Trp-Asp; 3) Val-Ile; * 4) Ala-Lys.
436. romel dipeptidSi SeuZl ia peptiduri bmis gawyveta pepsins?
 1) Asn-Leu; 2) Trp-Asp; 3) Val-Phe; * 4) Ala-Lys.
437. romel naerTebSi gvxxvdeba amiduri bmebi?
 1) pol isaqaridebSi; 2) cil ebSi; *
 3) nukl einmJavebSi; 4) fenol -formal dehidur fisebSi.
438. romel naerTSi gvxxvdeba amiduri bmebi?
 1) pol inukl eotidebSi; 2) pol ipeptidebSi; *
 3) pol ieTil enSi; 4) fenol -formal dehidur fisebSi.
439. fenacetini aris N-(4-hidroqsi fenil)acetamidis:
 1) meTil eTeri; 2) eTil eTeri; * 3) propil eTeri; 4) butil eTeri.

440. romel i formul iTaa gamosaxul i preparat paracetamol is aRnagoba?



441. romel i ganmartebaa arasamarTl iani adrenal inisaTvis?
 1) reagirebs ZmarmJava anhidridTan; 2) reagirebs maril mJavasTan;
 3) reagirebs hidrazinTan; * 4) reagirebs bromian wyal Tan.
442. romel i ganmartebaa arasamarTl iani adrenal inisaTvis?
 1) reagirebs ZmarmJava anhidridTan; 2) reagirebs maril mJavasTan;
 3) reagirebs hidroqsil aminTan; * 4) reagirebs bromian wyal Tan.
443. amiaKTan erTad romel i iTonis maril ebis Tanaobisas axureben hal ogenfenol ebs aminofenol ebis mi saRebad?
 1) Al; 2) Fe; 3) Cu; * 4) Ni.
444. romel i formul iTaa gamosaxul i preparat fenacetinis aRnagoba?



445. paracetamol i miReba p-aminofenol is:

1) al kil irebiT; 2) acil irebiT; * 3) karboqsil irebiT; 4) hidri irebiT.

446. romel naerTebis aqvs IUPAC-is nomenkl aturiT -ol idi sufiqsi?

1) l aqtamebs; 2) l aqtidebs; 3) l aqtonebs; * 4) diketopi perazinebs.

447. romel i naerTis nawarmia dimedrol i?

1) kol aminis; * 2) qol inis; 3) 2-aminofenol is; 4) pirokateqinis.

448. kol aminis nawarmia:

1) dimedrol i; * 2) streptocidi; 3) val idol i; 4) kordi amini.

449. 2-aminoetanol is nawarmia:

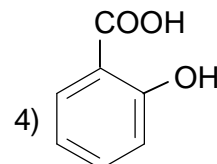
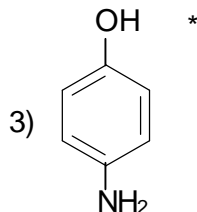
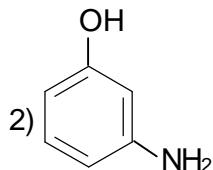
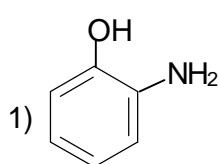
1) dimedrol i; * 2) streptocidi; 3) val idol i; 4) kordi amini.

450. romel i naerTi miReba hidroqsiazobenzol is aRdgeniT?

1) o-aminofenol i; 2) m-aminofenol i;

3) p-aminofenol i; * 4) azobenzol i.

451. romel i naerTi miReba hidroqsiazobenzol is aRdgeniT?



452. CamoTvl il i aminospirtebidan romel ia mdgradi?

1) geminal uri; 2) vicinal uri; * 3) orive; 4) arcerTi.

453. ra miReba 2-aminoetanol is urTierTqmedebiT azotovanmJavasTan?

1) eTanol i; 2) 1,2-eTandi ol i; *

3) 1,2,3-propantri ol i; 4) nitrozoeTani.

454. kol aminis romel naerTTan reagirebisas miReba eTil engl ikol i?

1) HNO₃; 2) HNO₂; * 3) HCl; 4) NaOH.

455. ra miReba kol aminis urTierTqmedebiT azotovanmJavasTan?

1) eTanol i; 2) 1,2-eTandi ol i; *

3) 1,2,3-propantri ol i; 4) nitrozoeTani.

456. romel i naerTis aRdgeniT ar miReba aminofenol i?

1) nitrofenol i; 2) nitrozofenol i;

3) hidroqsiazobenzol is; 4) hidrazobenzol is. *

457. O-acil irebul i aminofenol is SemJavebul i wyal xsnaris Senaxvi sas warmoi qmneba:

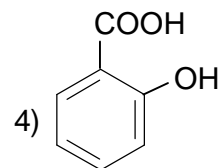
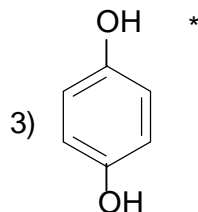
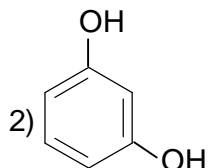
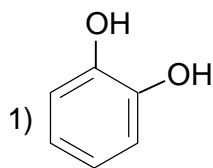
1) acil benzol i; 2) acil fenol i;

3) N-acil irebul i aminofenol i; * 4) aminofenol i.

458. romel i naerTis daJangvi sas warmoi qmneba qinonmonoi mini?

1) hidroqinonis; * 2) nitrofenol is; 3) anil inis; 4) aminofenol is.

459. romel i naerTis daJangvi sas warmoi qmneba qinonmonoi mini?



460. romel i naerTebis rTul i eTerebis saxiT aris gavrcel ebul i bunebaSi qol ini?

1) l i pidebis; * 2) naxSirwyl ebis; 3) aminomJavebis; 4) nukl eozi debis.

461. eTil enis oqsidze Warbi amiakis moqmedebi T kol aminTan erTad mi iReba:

1) eTil amini; 2) eTanol i; 3) qol ini; 4) dieTanol amini. *

462. 2-aminoeTanol i mi iReba amiakis urTierTqmedebi T:

1) eTanol Tan; 2) eTil engl i kol Tan;
3) eTanmJavasTan; 4) eTil enis oqsidTan. *

463. kol amini mi iReba amiakis urTierTqmedebi T:

1) eTanol Tan; 2) eTil engl i kol Tan;
3) eTanmJavasTan; 4) eTil enis oqsidTan. *

464. kol amini mi iReba eTil enis oqsidis urTierTqmedebi T:

1) meTil aminTan; 2) eTil aminTan; 3) amiakTan; * 4) acetamidTan.

465. romel i naerTis naSTi Sedis biogenuri aminebis mol ekul aTa Sedgenil omaSi?

1) fl orogl ucini s; 2) pirokateqini s; * 3) hidroqinoni s; 4) rezorcini s;

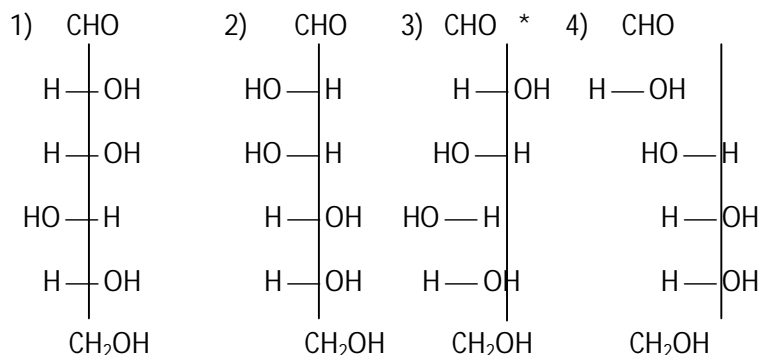
466. romel i al kal oidia axl os aRnagobi T kateqol aminebTan?

1) papaverini; 2) eFedrini; * 3) koni ini; 4) kofeini.

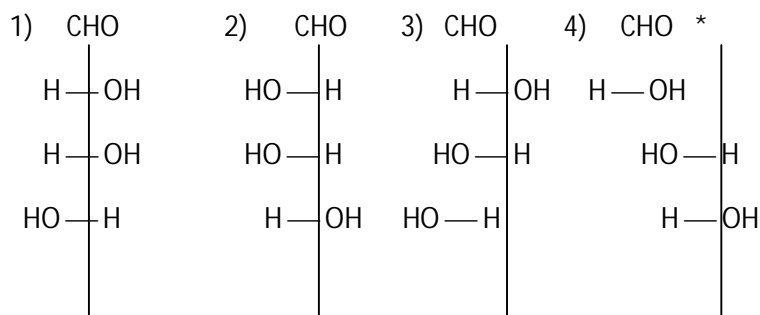
467. naxSirbadis romel i atomis konfiguraci iT gansxvavdeba al dozebis α - da β -anomerebi erTmaneTisagan?

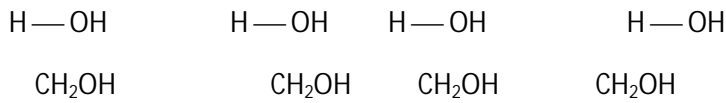
1) pirvel i; * 2) meore; 3) mesame; 4) meoTxe.

468. fiSeris romel i proeqciul i formul iTaa gamosaxul i D-gal aqtozis aRnagoba?

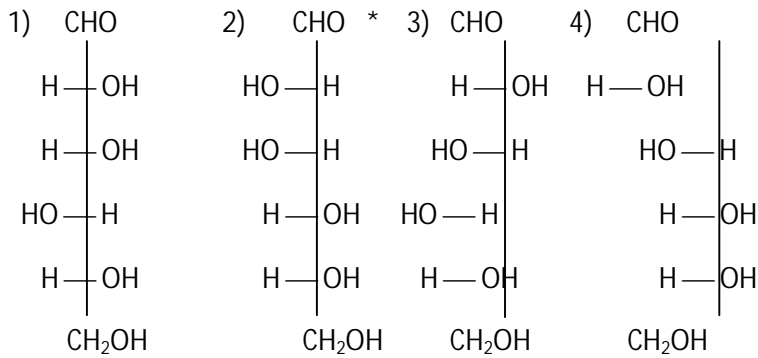


469. fiSeris romel i proeqciul i formul iTaa gamosaxul i D-gl ukozis aRnagoba?





470. fiSeries romel i proeqciul i formul iTaa gamosaxul i D-manozis aRnagoba?



471. ramdeni mol i WianWvel mJava mi iReba erTi mol i manozis periodatul i Jangvi sas?

- 1) 1; 2) 3; 3) 5; * 4) 6.

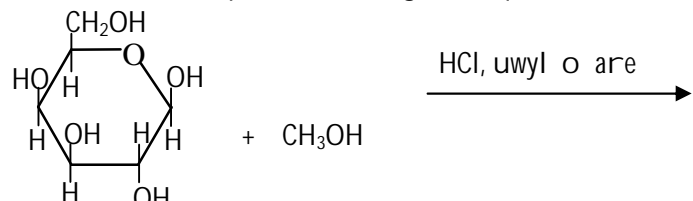
472. martivi eTerebi mi iReba monozebis urTierTqmedebi T:

- 1) spirtebTan; 2) al kil sul fatebTan; *
 3) fenol ebTan; 4) bromian wyal Tan.

473. martivi eTerebi mi iReba monozebis urTierTqmedebi T:

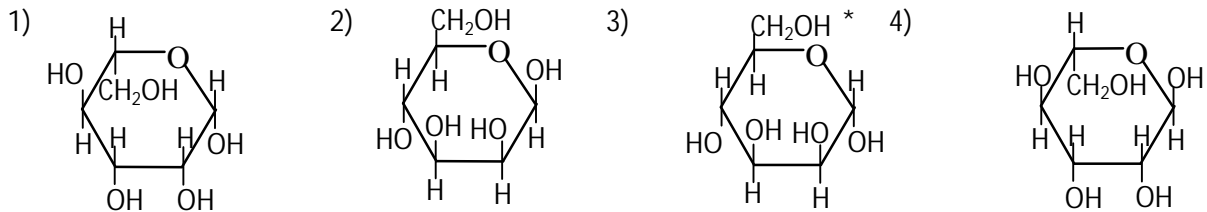
- 1) spirtebTan; 2) al kil hal ogeni debTan; *
 3) fenol ebTan; 4) bromian wyal Tan.

474. romel i naerTi warmoi qmneba Semdegi reaqqi iT?

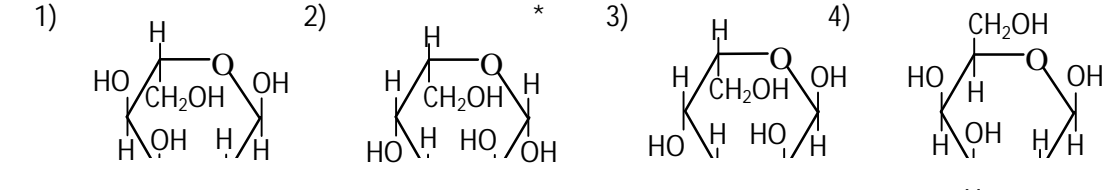


- 1) mxol od meTil -β-D-gal aqtopiranozidi;
 2) meTil -2,3,4,6-tetra-O-meTil -β-D-gal aqtopiranozidi;
 3) meTil -α-D- da meTil -β-D-gal aqtopiranozidebis narevi; *
 4) mxol od meTil -α-D-gal aqtopiranozidi.

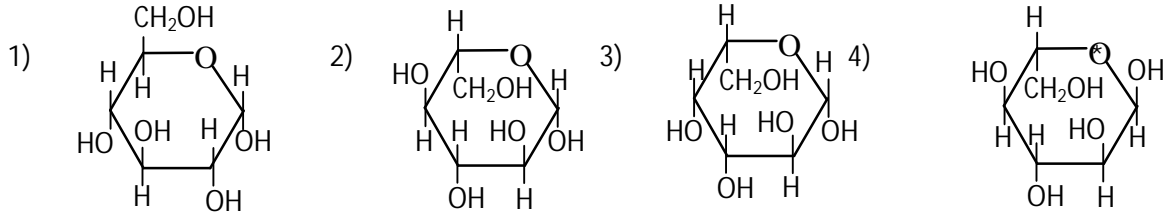
475. romel i formul a Seesabameba α-D-manopiranozas?



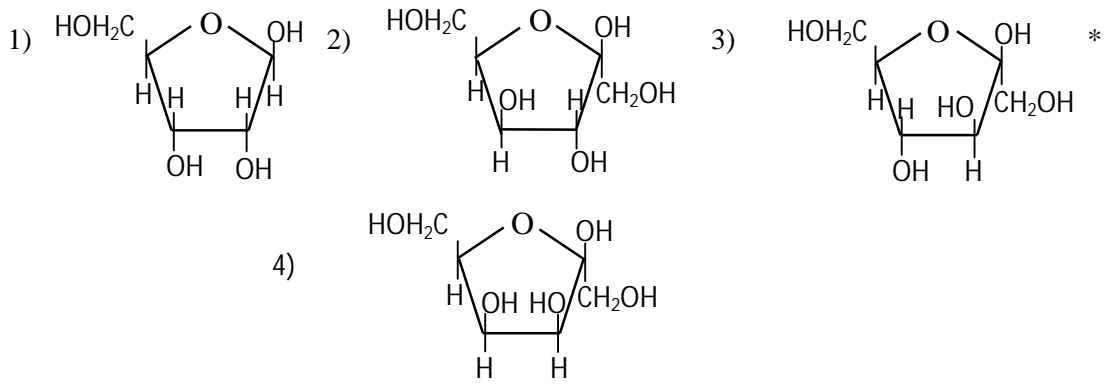
476. romel i formul a Seesabameba β-L-gal aqtopiranozas?



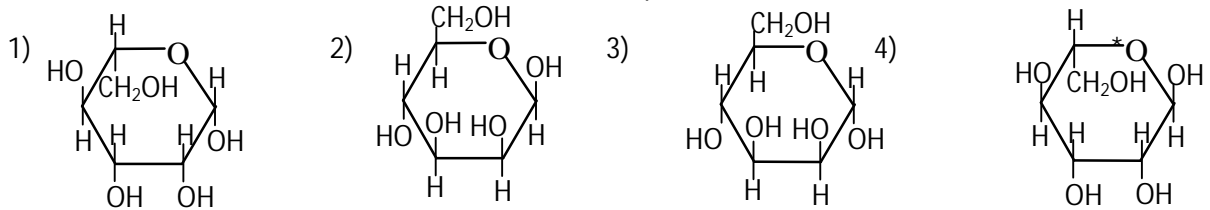
477. romel i formul a Seesabameba α -L-gl ukopiranozas?



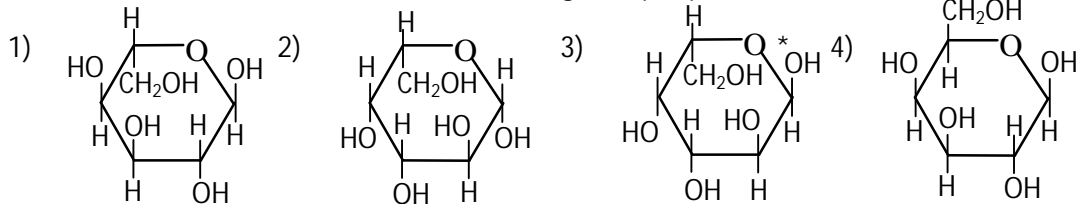
478. romel i formul a gamosaxavs β -D-fruqtofuranozis aRnagobas?



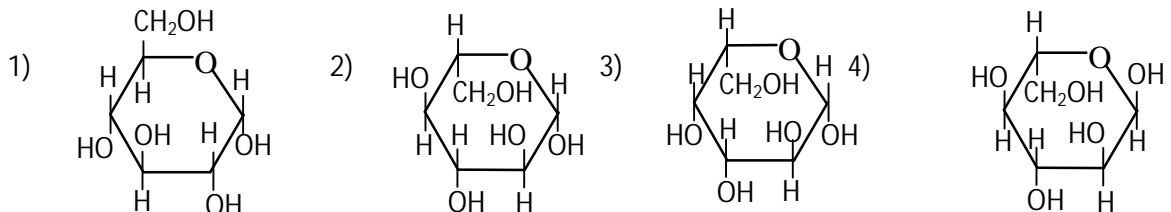
479. romel i formul a Seesabameba α -L-manopiranozas?



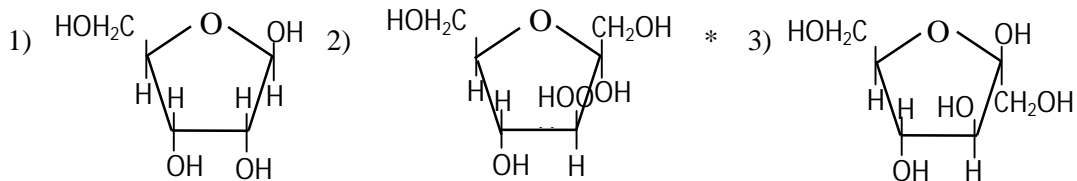
480. romel i formul a Seesabameba α -L-gal aqtopiranozas?



481. romel i formul a Seesabameba α -L-gl ukopiranozis anomers?



482. romel i formul a gamosaxavs β -D-fruqtofuranozis anomeris aRnagobas?



4)

483. monozebis urTierTqmedebiT al kil hal ogenidebTan miiReba:

- 1) martivi eTerebi; * 2) rTul i eTerebi;
3) gl ikozidebi; 4) gl ikonmJavebi.

483. ramdeni mol i romel i WianWvel mJava miiReba erTi mol i gal aqtozis periodatul i Jangvisas?

- 1) 3; 2) 4; 3) 5; * 4) 6.

484. ramdeni mol i romel i WianWvel mJava miiReba erTi mol i manozis periodatul i Jangvisas?

- 1) 3; 2) 4; 3) 5; * 4) 6.

485. ramdeni mol i romel i WianWvel mJava miiReba erTi mol i gl ukozis periodatul i Jangvisas?

- 1) 3; 2) 4; 3) 5; * 4) 6.

486. 5 mol i romel i mJava miiReba erTi mol i manozis periodatul i Jangvisas?

- 1) WianWvel mJava; * 2) ZmarmJava;
3) propionmJava; 4) erbomJava.

487. 5 mol i romel i mJava miiReba erTi mol i gl ukozis periodatul i Jangvisas?

- 1) WianWvel mJava; * 2) ZmarmJava;
3) propionmJava; 4) erbomJava.

488. 5 mol i romel i mJava miiReba erTi mol i gal aqtozis periodatul i Jangvisas?

- 1) WianWvel mJava; * 2) ZmarmJava;
3) propionmJava; 4) erbomJava.

489. CamoTvl il i reagentebidan roml is gamoyeneba SeiZl eba manuronmJavas sinTezisas?

- 1) mxol od tol ensis reaktivi; 2) mxol od fel ingis reaktivi;
3) mxol od benediqtis reaktivi; 4) arcerTi zemoCamoTvl il is. *

490. CamoTvl il i reagentebidan roml is gamoyeneba SeiZl eba gal aqturonmJavas sinTezisas?

- 1) mxol od tol ensis reaktivi; 2) mxol od fel ingis reaktivi;
3) mxol od benediqtis reaktivi; 4) arcerTi zemoCamoTvl il is. *

491. CamoTvl il i reagentebidan roml is gamoyeneba SeiZl eba gl ukuronmJavas sinTezisas?

- 1) mxol od tol ensis reaktivi; 2) mxol od fel ingis reaktivi;
3) mxol od benediqtis reaktivi; 4) arcerTi zemoCamoTvl il is. *

492. mJava areSi gl ikonmJavebi gardaiqmneba:

- 1) γ -l aqtonad; * 2) δ -l aqtonad; 3) δ -l aqtamad; 4) γ -l aqtamad.

493. mJava areSi gl ukonmJava gardaiqmneba:

- 1) γ -l aqtonad; * 2) δ -l aqtonad; 3) δ -l aqtamad; 4) γ -l aqtamad.

495. mJava areSi gal aqtonmJava gardaiqmneba:

- 1) γ -l aqtonad; * 2) δ -l aqtonad; 3) δ -l aqtamad; 4) γ -l aqtamad.

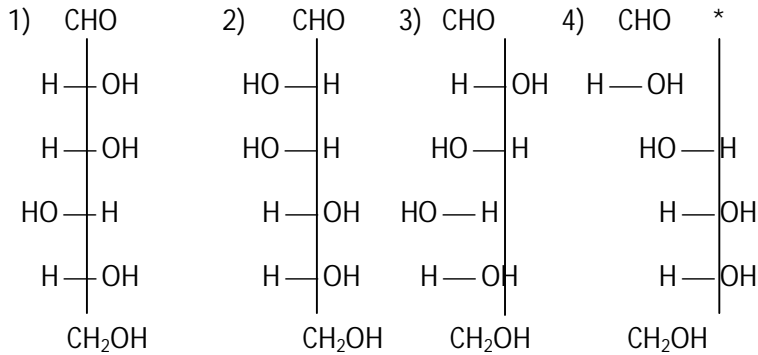
496. mJava areSi manonmJava gardaiqmneba:

- 1) γ -l aqtonad; * 2) δ -l aqtonad; 3) δ -l aqtamad; 4) γ -l aqtamad.

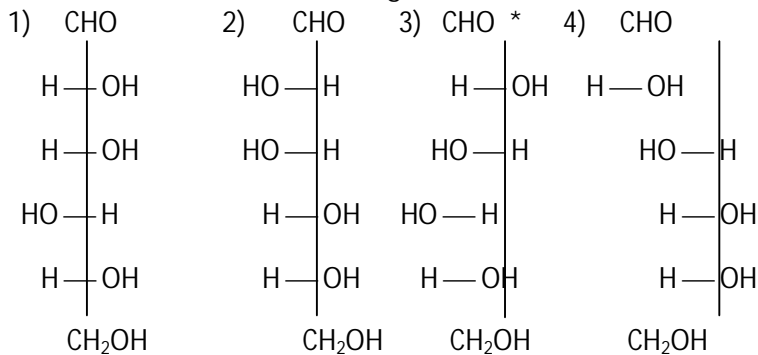
497. მJava არეSi γ-ლ აqtonebad gardaiqmneba:

1) gl ikarmJavebi; 2) gl ikonmJavebi; * 3) gl ikuronmJavebi; 4) al ditol ebi;

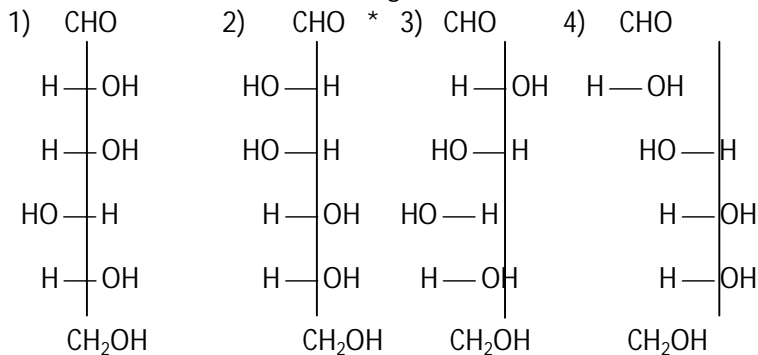
498. romel i naerTis aRdgeniT miiReba sorbitol i?



499. romel i naerTis aRdgeniT miiReba dul citol i?



500. romel i naerTis aRdgeniT miiReba manitol i?



501. CamoTvl il i naerTebidan romel i miiReba fruqtozis aRdgeni sas?

1) dul citol i; 2) ribitol i; 3) manitol i; * 4) inozitol i.

502. CamoTvl il i naerTebidan romel i miiReba fruqtozis aRdgeni sas?

1) dul citol i; 2) sorbitol i; * 3) qsil itol i; 4) inozitol i.

503. gal aqtozis aRdgeniT miiReba:

1) dul citol i; * 2) sorbitol i; 3) manitol i; 4) inozitol i.

504. gl ukozis aRdgeniT miiReba:

1) dul citol i; 2) sorbitol i; * 3) manitol i; 4) inozitol i.

505. romel i monoza ar Sedis gl ukozis epimerizაციის Sedegad miRebul narevSi?

1) gal aqtoza; * 2) fruqtoza; 3) manoza; 4) gl ukoza.

506. romel i monoza ar Sedis gl ukozis epimerizაციის Sedegad miRebul narevSi?

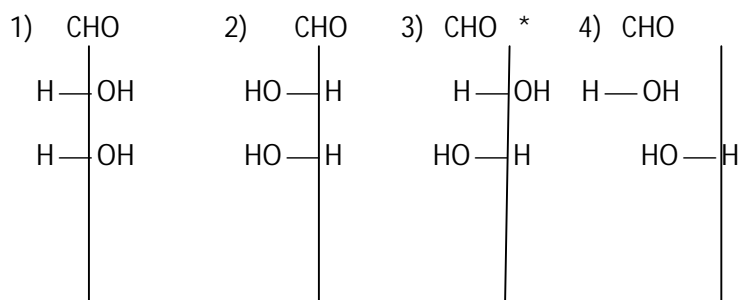
1) riboza; * 2) fruqtoza; 3) manoza; 4) gl ukoza.

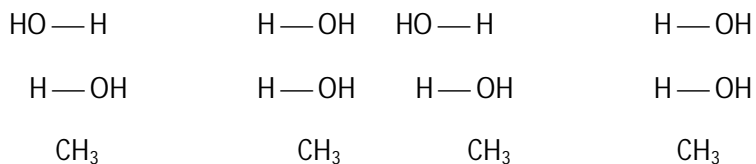
507. romel i naerTi gamoiyeneba Tavis tvinis SeSupebisa da Tavis qal as Siga wnevis Sesamcirebl ad?

1) qsil itol i; 2) gl ucitol i; 3) gal aqtitol i; 4) manitol i. *

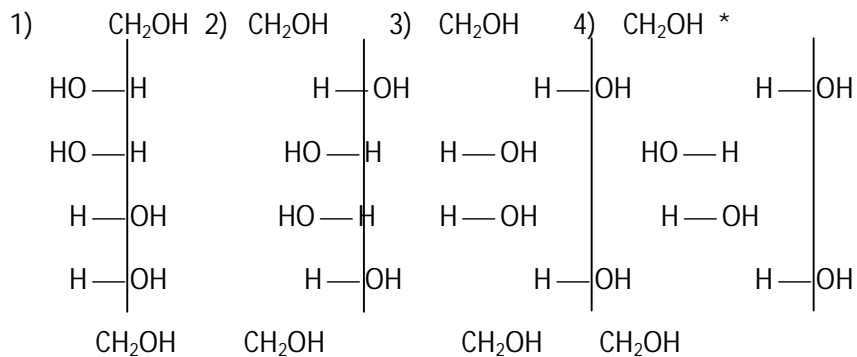
508. cikl o-oqso tautomerias safuZvl ad udevs monosaqaridebis unari:
 1) martivi eTerebis warmoqmnisa; 2) Sigamol ekul uri nukl eofil uri mierTebisa; *
 3) epimerizaciisa sust tute areSi; 4) daJangvisa.
509. romel i tautomeri ar miiReba meTil -al fa-D-manopiranozidis hidrol iziT?
 1) D-manoza (oqsoforma); 2) β -D-manopiranoza da β -D-manofuranoza;
 3) α -D-manopiranoza da α -D-manofuranoza; 4) meTil - β -D-manopiranozidi. *
510. Zl ier mineral ur mJavebTan gaxurebisas furfurol s ar warmoqmnis:
 1) arabinoza; 2) riboza; 3) qsil oza; 4) manoza. *
511. Zl ier mineral ur mJavebTan gaxurebisas furfurol s ar warmoqmnis:
 1) gl ukoza; * 2) riboza; 3) qsil oza; 4) arabinoza.
512. Zl ier mineral ur mJavebTan gaxurebisas furfurol s ar warmoqmnis:
 1) arabinoza; 2) riboza; 3) qsil oza; 4) gal aqtoza. *
513. Zl ier mineral ur mJavebTan gaxurebisas furfurol s warmoqmnis:
 1) gl ukoza; 2) riboza; * 3) manoza; 4) gal aqtoza.
514. Zl ier mineral ur mJavebTan gaxurebisas furfurol s warmoqmnis:
 1) qsil oza; * 2) gl ukoza; 3) manoza; 4) gal aqtoza.
515. Zl ier mineral ur mJavebTan gaxurebisas furfurol s warmoqmnis:
 1) arabinoza; * 2) gl ukoza; 3) manoza; 4) gal aqtoza.
516. vitamini Caris 2-oqso-L-gul onmJavas:
 1) γ -l aqtoni; * 2) δ -l aqtoni; 3) λ -l aqtoni; 4) β -l aqtoni.
517. D-fukoza aris:
 1) 2-dezoqsi-D-gal aqtoza; 2) 3-dezoqsi-D-gal aqtoza;
 3) 5-dezoqsi-D-gal aqtoza; 4) 6-dezoqsi-D-gal aqtoza. *
518. romel i heqsozis nawarmia fukoza?
 1) fruqtozis; 2) gl ukozia; 3) gal aqtozis; * 4) manozis.
519. CamoTvl il i monozebidan romel ia ketoheqsoza?
 1) fruqtoza; * 2) gl ukoza; 3) gal aqtoza; 4) manoza.
520. rufis mier SemoTavazebul monosaqaridebis naxSirbadul i j aWvis damokl ebis meTodSi erT-erTi Sual eduri produqtia:
 1) gl ikarmJava; 2) gl ikonmJava; * 3) gl ikuronmJava; 4) al ditol i.
521. romel naerTTan urTierTqmedebisas warmoqmnis manoza oqsim?
 1) hidrazinTan; 2) ozonTan;
 3) fenil hidrazinTan; 4) hidroqsil aminTan. *
522. romel naerTTan urTierTqmedebisas warmoqmnis gl ukoza oqsim?
 1) hidrazinTan; 2) ozonTan;
 3) fenil hidrazinTan; 4) hidroqsil aminTan. *
523. romel naerTTan urTierTqmedebisas warmoqmnis gal aqtoza oqsim?
 1) hidrazinTan; 2) ozonTan;
 3) fenil hidrazinTan; 4) hidroqsil aminTan. *
524. ozazonebi miiReba al dozebis urTierTqmedebi T:
 1) hidrazinTan; 2) ozonTan;
 3) fenil hidrazinTan; * 4) hidroqsil aminTan.
525. fenil hidrazinTan reagirebisas romel i monosaqaridi warmoqmnis yvel aze advil ad ozazons?
 1) gl ukoza; 2) fruqtoza; * 3) gal aqtoza; 4) manoza.
526. visi sinTeziT aris SesaZl ebel i monosaqaridis naxSirbadul i j aWvis dagrZel eba?
 1) fiSer-tropSis; 2) rufis; 3) kil iani-fiSeris; * 4) l ebedevis.
527. Zl ieri mineral uri mJavas Tanaobisas gl ukozis gaxurebi T miiReba:
 1) furfurol i; 2) hidroqsimeTil furfurol i; * 3) manoza; 4) fruqtoza.
528. Zl ieri mineral uri mJavas Tanaobisas manozis gaxurebi T miiReba:

- 1) furfuroლი; 2) ჰიდროქსიმეტილ ფურფუოლი; *
 3) გლუკოზა; 4) ფრუქტოზა.
529. ზღერი მინერალი ურღმჯავას ტანაობისას გალაქოზის გაცურებიტ მიღება:
 1) furfuroლი; 2) ჰიდროქსიმეტილ ფურფუოლი; *
 3) მანოზა; 4) ფრუქტოზა.
530. ზღერი მინერალი ურღმჯავას ტანაობისას რომელი მონოსაქარიდის გაცურებიტ მიღება ჰიდროქსიმეტილ ფურფუოლი?
 1) რიბოზის; 2) გალაქოზის; * 3) ქსილოზის; 4) არაბინოზის.
531. ზღერი მინერალი ურღმჯავას ტანაობისას რომელი მონოსაქარიდის გაცურებიტ მიღება ჰიდროქსიმეტილ ფურფუოლი?
 1) რიბოზის; 2) ფრუქტოზის; * 3) ქსილოზის; 4) არაბინოზის.
532. ზღერი მინერალი ურღმჯავას ტანაობისას რომელი მონოსაქარიდის გაცურებიტ მიღება ჰიდროქსიმეტილ ფურფუოლი?
 1) რიბოზის; 2) ქსილოზის; 3) მანოზის; * 4) არაბინოზის.
533. რომელი რეაგენტი გამოიყენება გლუკოზიდან გლუკონმჯავას მიღებისას?
 1) HI; 2) ROH; * 3) (RCO)₂O; 4) HNO₃.
534. რომელი ნაერთი დეკარბოქსილირებიტ შედება ადვილად ჰეჰოზებიდან პენტოზების მიღება?
 1) მჰოლოდი გლიკონმჯავების; 2) მჰოლოდი გლიკონმჯავების; *
 3) მჰოლოდი გლიკონმჯავების; 4) ყველა ზემოტყამოტვილი იტ.
535. აღდიტოლებს არ მიეკუთვნება
 1) ქსილიტოლი; 2) დულიტოლი; 3) სორბიტოლი; 4) ინოზიტოლი. *
536. რომელი ნაერთის არდგენიტი მიღება სორბიტოლი?
 1) გლუკოზის; * 2) გალაქოზის; 3) მანოზის; 4) რიბოზის.
537. რომელი ნაერთის არდგენიტი მიღება სორბიტოლი?
 1) გალაქოზის; 2) ფრუქტოზის; * 3) მანოზის; 4) რიბოზის.
538. რომელი ნაერთის არდგენიტი მიღება მანიტოლი?
 1) გლუკოზის; 2) გალაქოზის; 3) ფრუქტოზის; * 4) რიბოზის.
539. რომელი ნაერთის არდგენიტი მიღება დულიტოლი?
 1) გლუკოზის; 2) გალაქოზის; * 3) მანოზის; 4) რიბოზის.
540. რომელი მონოსაქარიდის ნაწარმი ვიტამინი C?
 1) გლუკოზის; 2) გალაქოზის; 3) მანოზის; 4) გულიოზის. *
541. რომელი მონოსაქარიდის ნაწარმი ასკორბინმჯავა?
 1) გლუკოზის; 2) გალაქოზის; 3) მანოზის; 4) გულიოზის. *
542. რომელი ნაერთის ლაქტონია ასკორბინმჯავა?
 1) D-გულიონმჯავასი; 2) L-გულიონმჯავასი; * 3) D-გლიკონმჯავასი; 4) L-გლიკონმჯავასი.
543. გლუკოზის დაჯანგვისას განზავებული აზოტმჯავიტი მიღება:
 1) გლიკონმჯავა; 2) გლიკონმჯავა; * 3) გლიკონმჯავა; 4) ვიანოველი მჯავა.
544. ტამოტვილი მონოსაქარიდებიდან რომლის არდგენიტი აქსეზილებელი ორი დიასტერეომერის სინთეზი?
 1) გლუკოზის; 2) ფრუქტოზის; * 3) მანოზის; 4) გალაქოზის.
545. მონოსაქარიდების ეპიმერიზაცია მიმდინარეობს:
 1) სუსტმჯავარესი; 2) ზღერი მჯავარესი;
 3) სუსტტუტარესი; * 4) ნეიტრალირარესი.
546. რომელი ფორმულიტყამოსაქული D-ფუკოზა?

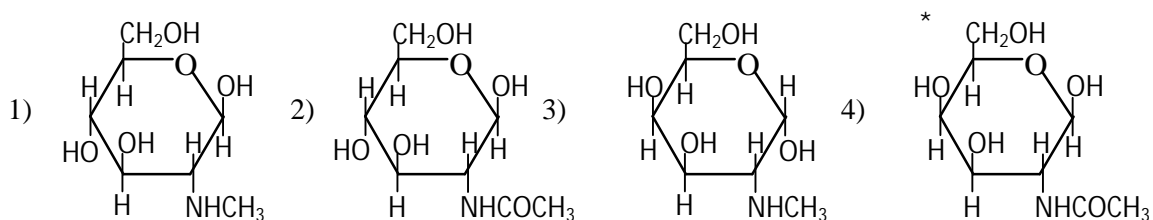




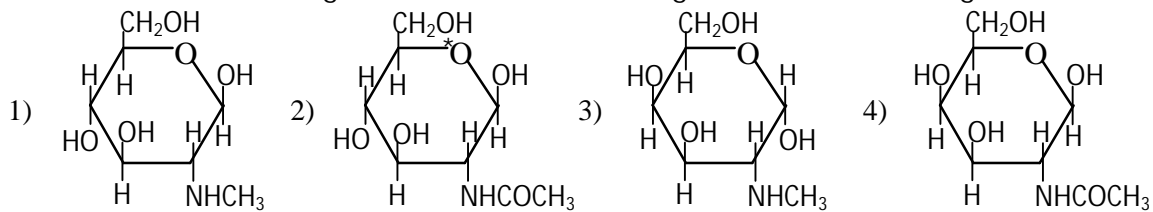
547. romel i naerTi gamoiyeneba Saqris Semcvi el ad diabetes dros?



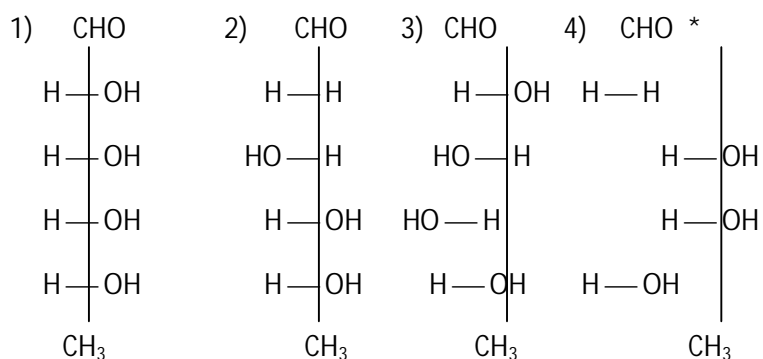
548. romel i formul a gamosaxavs N-acetil -D-gal aqtozaminis aRnagobas?



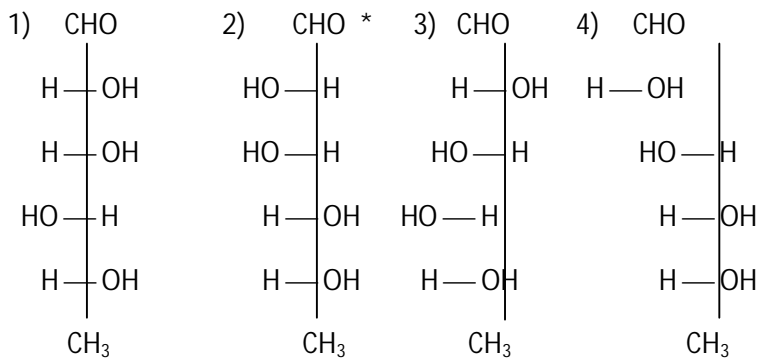
549. romel i formul a gamosaxavs N-acetil -D-gl ukozaminis aRnagobas?



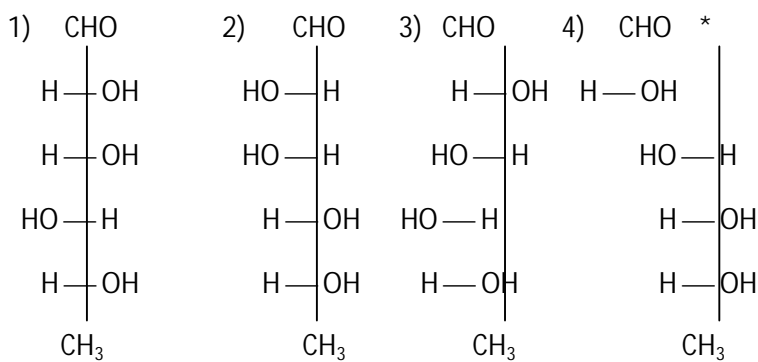
550. romel i formul iTaa gamosaxul i D-digi toqsoza?



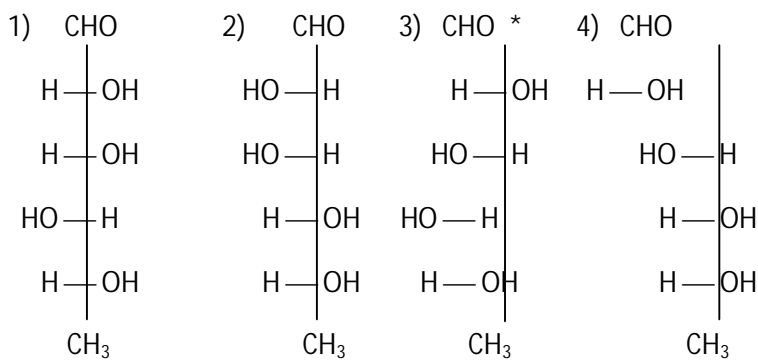
551. romel i formul iTaa gamosaxul i 6-dezoqsi-D-manoza?



552. romel i formul iTaa gamosaxul i 6-dezoqsi-D-gl ukoza?



553. romel i formul iTaa gamosaxul i 6-dezoqsi-D-gal aqtoza?



554. romel i disaqaridis srul i saxel wodebaa β -D-gl ukopiranozil -(1→6)- β -D-gl ukopiranoza?

1) mal tozis; 2) l aqtozis; 3) cel obiozis; 4) genciobiozis. *

555. romel biozas ar gaaCnia mutarotaciis unari?

1) mal tozas; 2) cel obiozas; 3) l aqtozas; 4) saqarozas. *

556. CamoTvl il i disaqaridebidan romel i ar aris aRmdgeni?

1) mal toza; 2) l aqtoza; 3) cel obioza; 4) saqaroza. *

557. romel i formul a gamosaxavs α -l aqtozis aRnagobas?



1)

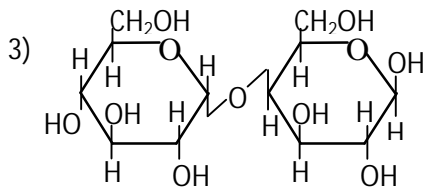
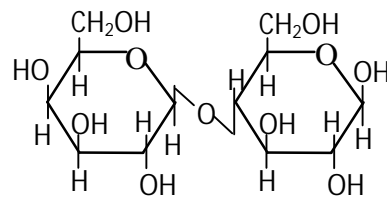
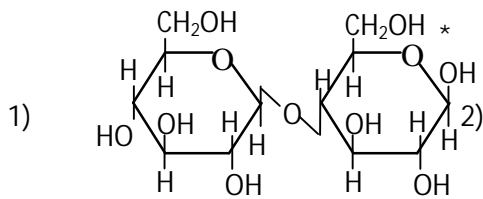
2)

3)

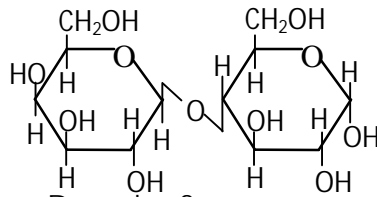
4)

*

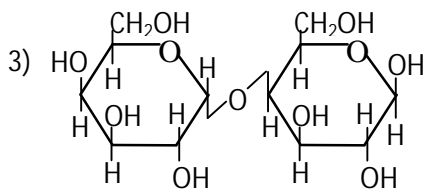
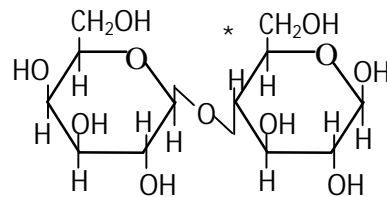
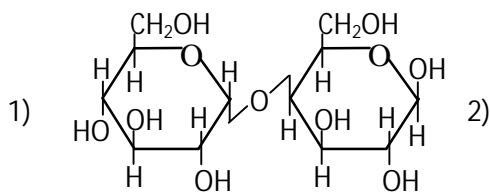
558. romel i formul a gamosaxavs cel obiozis aRnagobas?



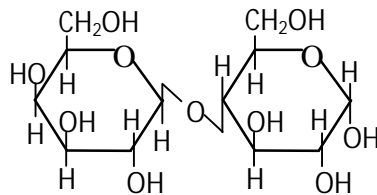
4)



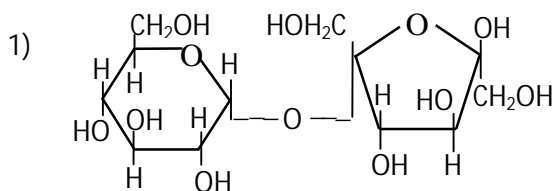
559. romel i formul a gamosaxavs beta-l aqtozis aRnagobas?



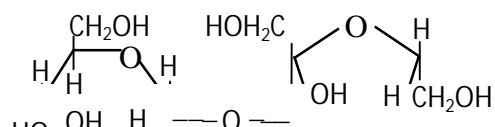
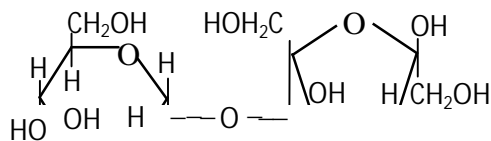
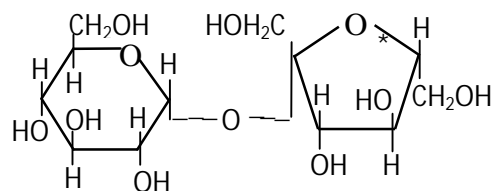
4)



560. romel i formul a Seesabameba saqarozis aRnagobas?



2)



3)

4)

561. romel i disaqaridis srul i saxel wodebaa α -D-gl ukopiranozil $-(1\rightarrow4)$ - α -D-gl ukopiranoza;

1) l aqtozis; 2) mal tozis; * 3) genciobiozis; 4) cel obiozis.

562. romel i disaqaridis srul i saxel wodebaa α -D-gl ukopiranozil $-(1\rightarrow2)$ - β -D-fruqtofuranozidi?

1) l aqtozis; 2) mal tozis; 3) genciobiozis; 4) saqarozis. *

563. romel i disaqaridis srul i saxel wodebaa β -D-gal aqtopiranozil $-(1\rightarrow4)$ - β -D-gl ukopiranoza?

1) l aqtozis; * 2) cel obiozis; 3) genciobiozis; 4) saqarozis.

564. romel i disaqaridis srul i saxel wodebaa α -D-gl ukopiranozil $-(1\rightarrow4)$ - β -D-gl ukopiranoza;

1) l aqtozis; 2) mal tozis; * 3) genciobiozis; 4) cel obiozis.

565. saqarozis inversiis Sedegad miRebul i narevi sinaTI is pol arizaciis sibr tyes:

1) abrunebs marcxniv; * 2) abrunebs marj vniv; 3) ar abrunebs;

4) koncentraciisagan damokidebul ebiT brunvis mimarTul eba gansxvavebul ia.

566. romel i disaqaridis nawarmia amigdal ini?

1) saqarozis; 2) cel obiozis; 3) l aqtozis; 4) genciobiozis. *

567. romel i disaqaridis Sedgenil obaSi gvxxvdeba gal aqtozis naSTi?

1) saqarozis; 2) cel obiozis; 3) l aqtozis; * 4) genciobiozis.

568. romel i disaqaridis Sedgenil obaSi gvxxvdeba fruqtozis naSTi?

1) saqarozis; * 2) cel obiozis; 3) l aqtozis; 4) genciobiozis.

569. romel i disaqaridis Sedgenil obaSi gvxxvdeba mxol od β -Dgl ukopiranozis naSTebi?

1) saqarozis; 2) cel obiozis; * 3) l aqtozis; 4) mal tozis.

570. romel biozas ar gaaCnia mutarotaciis unari?

1) mal tozas; 2) cel obiozas; 3) l aqtozas; 4) saqarozas. *

571. romel i disaqaridis Sedgenil obaSi gvxxvdeba α - $(1\rightarrow2)$ -gl ikoziduri bmebi?

1) saqarozis; * 2) cel obiozis; 3) l aqtozis; 4) genciobiozis.

572. hidrol izis Sedegad romel i naerTis warmoqmniT aixsneba amigdal inis momwaml avi moqmedeba?

1) HCl; 2) HClO; 3) HCN; * 4) HBr.

573. saqarozis saxel wodebaa:

1) α -D-gl ukopiranozil $-(1\rightarrow4)$ - β -D-fruqtofuranoza;

2) α -D-gl ukopiranozil $-(1\rightarrow2)$ - β -D-fruqtofuranoza;

3) α -D-gl ukopiranozil $-(1\rightarrow4)$ - β -D-fruqtofuranozidi;

4) α -D-gl ukopiranozil $-(1\rightarrow2)$ - β -D-fruqtofuranozidi. *

574. l aqtozis saxel wodebaa:

- 1) β -D-gl ukopiranozil -(1→4)- β -D-gl ukopiranoza;
- 2) α -D-gl ukopiranozil -(1→4)- β -D-gl ukopiranoza;
- 1) β -D-gal aqtopiranozil -(1→4)- β -D-gl ukopiranoza; *
- 1) α -D-gl ukopiranozil -(1→4)- β -D-gal aqtopiranoza.

575. mal tozis saxel wodebaa:

- 1) α -D-gl ukopiranozil -(1→4)- β -D-gl ukopiranoza; *
- 2) α -D-gl ukopiranozil -(1→4)- β -D-gal aqtopiranoza;
- 3) β -D-gl ukopiranozil -(1→4)- β -D-gl ukopiranoza;
- 4) α -D-gl ukopiranozil -(1→4)- β -D-gl ukofuranoza.

576. genciobiozis saxel wodebaa:

- 1) β -D-gl ukopiranozil -(1→4)- β -D-gal aqtopiranoza;
- 2) β -D-gal aqtopiranozil -(1→4)- β -D-gl ukopiranoza;
- 3) β -D-gl ukopiranozil -(1→6)- β -D-gl ukopiranoza; *
- 4) β -D-gal aqtopiranozil -(1→4)- β -D-gl ukopiranoza.

577. pol iozebi advil ad hidrol izdeba:

- 1) mJava areSi; *
- 2) sust tute areSi;
- 3) ZI ier tute areSi;
- 4) neutral ur areSi.

578. rogori gl ikoziduri bmebia amil opeqtinis makromol ekul aSi ganStoebis adgil ebSi?

- 1) α -(1→2)- ;
- 2) α -(1→3)- ;
- 3) α -(1→4)- ;
- 4) α -(1→6)- . *

579. pol iozebis aTvis damaxasiaTebel ia:

- 1) mxol od pirvel adi struqtura;
- 2) mxol od meoreul i struqtura;
- 3) rogorc pirvel adi, ise meoreul i struqtura; *
- 4) rogorc pirvel adi, ise meoreul i da mesameul i struqturabi.

580. saxamebl is swrafi gacxel ebis Sedegad warmoiqmneba:

- 1) deqstranebi.
- 2) deqstrinebi; *
- 3) cel ul oza;
- 4) gl ikogeni.

581. saxamebl is mol ekul aSi amil oza SeiZl eba iyos:

- 1) 5%;
- 2) 15%; *
- 3) 30%;
- 4) 50%.

582. CamoTvl il i pol isaqaridebidan romel ia baqteriul i warmoSobis?

- 1) deqstranebi; *
- 2) deqstrinebi;
- 3) amil opeqtini;
- 4) amil oza.

583. romel i disaqarididan miReba baqteriebis moqmedebi T deqstranebi?

- 1) saqarozis; *
- 2) cel obiozis;
- 3) l aqtozis;
- 4) genciobiozis.

584. romel i pol isaqarididan Rebul oben ul trabgeris moqmedebi T preparat pol igl ukinis erT-erT komponents?

- 1) deqstranebidan; *
- 2) deqstrinebidan;
- 3) amil opeqtinidan;
- 4) gl ikogenidan.

585. rogori gl ikoziduri bmebiTaa erTmaneTTan dakavSirebul i α -D-gl ukopiranozul i naSTebi erTmaneTTan deqstranebis ZiriTad j aWvSi?

- 1) α -(1→4)- ;
- 2) α -(1→3)- ;
- 3) α -(1→2)- ;
- 4) α -(1→6)- . *

586. moyvani i ganmartebidan romel ia swori?

- 1) deqstrinebi baqteriul i warmoSobis pol isaqaridebia;
- 2) natriumis ql oridis izotonur xsnarSi nawil obriv hidrol izebul i deqstranis 60%-ian xsnari cnobil ia preparat pol igl ukinis saxel wodebiT;
- 3) amil opeqtinSi ganStoebis adgil ebSi β -(1→6)-gl ikoziduri bmebia;
- 4) amil ozis makromol ekul a spiral uradaa daxveul i. *

587. organul naerTTa romel j gufs miekuTvneba heteropol igl ikanebi?

- 1) gl ikol ebis; 2) heterocikl ebis;
- 3) naxSirwyl ebis; * 4) steroidebis.

588. rogori gl ikoziduri bmebiTaa dakavSirebul i erTmaneTTan gl ukopiranozul i naSTebi deqstranis ZiriTad j aWwSi?

- 1) α -(1→2)- ; 2) α -(1→3)- ; 3) α -(1→4)- ; 4) α -(1→6)- . *

589. romel nivTierebas atareben mJavas xsnarSi CaSvebis win viwro RarSi cel ofanis misaRebad?

- 1) al kal icel ul ozas; 2) qsantogenats; *
- 3) trinitrocel ul ozas; 4) acetil cel ul ozas.

590. kol oqsil ini aris:

- 1) mononitrocel ul oz; 2) dinitrocel ul oza;
- 3) trinitrocel ul oza; 1) mono- da dinitrocel ul ozis narevi. *

591. CamoTvl il i nivTierebebidan romel Si j irj vdeba cel ul oza?

- 1) cxel wyal Si; 2) civ wyal Si; 3) tutis xsnarSi; * 4) arcerTSi.

592. ramdeni monosaqaridul i naSTi TavSdeba amil ozis makromol ekul is spiral is erT xviaze?

- 1) 2; 2) 4; 3) 6; * 4) 8.

593. amiakis moqmedebiT romel i naerTidan miiReba pirol i?

- 1) butanal i; 2) butanmJava; 3) butandial i; * 4) pentanal i.

594. butandial ze amiakis moqmedebiT miiReba:

- 1) pirazol i; 2) imidazol i; 3) pirol i; * 4) piridini.

595. romel mJavaTa amoniumis maril is gaxurebiT miiReba pirol i?

- 1) gl ikonmJavebis; 2) gl ikuronmJavebis;
- 3) gl ikarmJavebis; * 4) aminomJavebis.

596. romel naerTi miiReba gl ikarmJavaTa amoniumis maril is gaxurebiT?

- 1) pirazol i; 2) imidazol i; 3) pirol i; * 4) piridini.

597. CamoTvl il i naerTebidan roml is sul firebisTvisaa aucil ebel i piridinsul fotrioqsidis gamoyeneba?

- 1) Tiofeni; 2) imidazol i; 3) pirazol i; 4) indol i.

598. CamoTvl il i naerTebidan roml is sul firebisTvisaa aucil ebel i piridinsul fotrioqsidis gamoyeneba?

- 1) pirol i; * 2) pirimidini; 3) pirazol i; 4) piridini.

599. CamoTvl il i naerTebidan roml is sul firebisTvisaa aucil ebel i piridinsul fotrioqsidis gamoyeneba?

- 1) furani; * 2) piridini; 3) pirazini; 4) pirimidini.

600. romel i naerTis sul firebisTvis aris SesaZl ebel i gogirdmJavas gamoyeneba?

- 1) indol i; 2) Tiofeni; * 3) pirol i; 4) furani.

601. CamoTvl il i naerTebidan roml is nitrirebisTvisaa aucil ebel i acetil nitratის gamoyeneba?

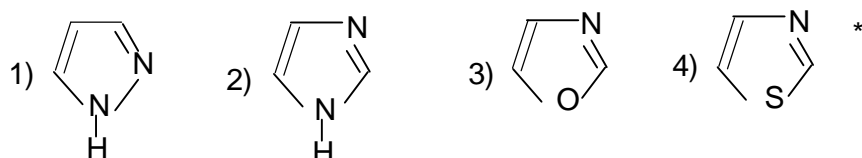
- 1) Tiofeni; * 2) imidazol i; 3) pirazol i; 4) indol i.

602. CamoTvl il i naerTebidan roml is nitrirebisTvisaa aucil ebel i acetil nitrat is gamoyeneba?
 1) pirol i; * 2) pirimidini; 3) pirazol i; 4) piridini.
603. CamoTvl il i naerTebidan roml is nitrirebisTvisaa aucil ebel i acetil nitrat is gamoyeneba?
 1) furani; * 2) piridini; 3) pirazini; 4) pirimidini.
604. romel i radikal i gvxd eba protoporfirinis mol ekul aSi?
 1) al il i; 2) vinil i; * 3) propil i; 4) eTil i.
605. romel i heterocikl is naSTebi gvxd eba hemis Sedgenil obaSi?
 1) furanis; 2) pirol is; * 3) piridinis; 4) pirazol is.
606. romel i heterocikl is naSTebi gvxd eba porfinis Sedgenil obaSi?
 1) furanis; 2) pirol is; * 3) piridinis; 4) pirazol is.
607. romel i heterocikl is naSTebi gvxd eba protoporfirinis Sedgenil obaSi?
 1) furanis; 2) pirol is; * 3) piridinis; 4) pirazol is.
608. CamoTvl il i naerTebidan romel ia mrvane Seferil obis?
 1) protoporfirini; 2) bil irubini; 3) bil iverdini; * 4) hemi.
609. bil irubini miiReba bil iverdinis:
 1) daJangviT; 2) aRdgeniT; * 3) hidroqsil irebiT; 4) dezamini rebiT.
610. romel i metal is ionia kompl eqswarmomqmnel i B₁₂ vitaminSi?
 1) TuTiis; 2) rkinis; 3) manganumis; 4) kobal tis. *
611. romel i nivTiereba Sedis hemodezis Semadgenl obaSi?
 1) vinil pirol idini; 2) pol ivinil acetati;
 3) pol ivinil pirol idoni; * 4) pol ivinil pirol idini.
612. saerTaSoriso nomenkl atur iT heterocikl ur naerTebSi gogirdSemcvel i naj eri xutwevriani cikl is arsebobaze migviTiTebis dabol oeba:
 1) -Tia; 2) -ol idini; 3) -ol ani; * 4) -ol i.
613. CamoTvl il Tagan romel i ioni warmoiqmneba sawyis etapze pirol is mineral uri mJavebiT damuSavebisas?
 1) pirazol iumis; 2) pirol iniumis; 3) pirol iumis; * 4) pirol idiniumis.
614. romel i vitamini gamoiyeneba qronikul i anemiis dros?
 1) B₁ 2) B₂; 3) B₁₂; * 4) C.
615. romel naerTis eniWeba didi rol i depresiul i mdgomareobis paTogenezSi?
 1) 2-hidroqsi triptofani; 2) 5-hidroqsi triptofani;
 3) 2-hidroqsi triptamini; 4) 5-hidroqsi triptamini; *
616. CamoTvl il Tagan romel i naerTis nawarmia furosemi di?
 1) orTo-aminobenzomJavasi; * 2) meta-aminobenzomJavasi;
 3) para-aminobenzomJavasi; 4) sal icil mJavasi.
617. CamoTvl il Tagan romel i naerTis nawarmia I aziqsi?
 1) orTo-aminobenzomJavasi; * 2) meta-aminobenzomJavasi;
 3) para-aminobenzomJavasi; 4) sal icil mJavasi.
618. romel i mJavas nawarmia I aziqsi?
 1) nikotinmJavasi; 2) orotmJavasi; 3) SardmJavasi; 4) anTranil mJavasi. *
619. romel i mJavas nawarmia furosemi di?
 1) nikotinmJavasi; 2) orotmJavasi; 3) SardmJavasi; 4) anTranil mJavasi. *
620. anTranil mJavas nawarmia:
 1) furosemi di; * 2) furacil ini; 3) fTivazidi; 4) kordiami ni.
621. romel i mJavas naSTi Sedis Hvi taminis Sedgenil obaSi?
 1) meTanmJavasi; 2) eTanmJavasi; 3) butanmJavasi; 4) pentanmJavasi. *
622. romel i mJavas naSTi Sedis biotinis Sedgenil obaSi?
 1) meTanmJavasi; 2) eTanmJavasi; 3) butanmJavasi; 4) pentanmJavasi. *
623. romel i naerTis naSTi gvxd eba kl ofel inis Sedgenil obaSi?

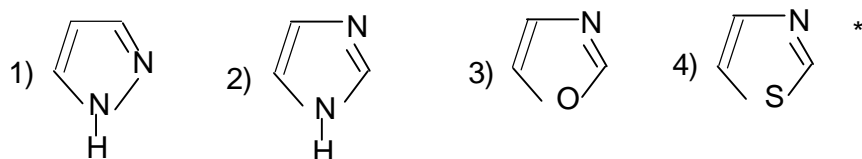
- 1) pirol idinis; 2) pirol inis; 3) imidazol inis; * 4) pirazol inis.
624. CamoTvl il Tagan romel i ar aris mxol od gogirdis atomis Semcvel i xuTwevriani heterocikl is nawarmi?
- 1) ul trakaini; 2) Tiamini; * 3) artikaini; 4) biotini.
625. romel i heterocikl uri naerTis nawarmia ul trakaini?
- 1) pirazol is; 2) furanis; 3) pirol idinis; 4) Tiofenis. *
626. romel i heterocikl uri naerTis nawarmia piracetami?
- 1) pirazol is; 2) piperidinis; 3) pirol idinis; * 4) pirimidinis.
627. romel i heterocikl uri naerTis nawarmia nootropil i?
- 1) pirazol is; 2) piperidinis; 3) pirol idinis; * 4) pirimidinis.
628. amiakis moqmedebiT romel i naerTidan miiReba piridini?
- 1) butanal i; 2) pentandial i; * 3) butandial i; 4) pentanal i.
629. pentandial ze amiakis moqmedebiT miiReba:
- 1) piridini; * 2) pirimidini; 3) pirol i; 4) pirazini.
630. CamoTvl il ebidan romel i ar aris B₆ vitamini?
- 1) piridoqsini; 2) piridoqsini; * 3) piridoqsamini; 4) arcerTi.
631. romel i funqciuri j gufi ar gvxdaba B₆ vitaminis Sedgenil obaSi?
- 1) hidroqsil is j gufi; 2) amino-j gufi;
- 3) al dehidis j gufi; 4) karboqsil is j gufi. *
632. romel i samkurnal o preparatis Sedgenil obaSi gvxdaba nitrobenzol is naSTi?
- 1) promedol i; 2) furacil ini; * 3) ftivazidi; 4) nifedipini. *
633. romel i heterocikl uri naerTis birTvi gvxdaba piridoqsaminiSi?
- 1) piranis; 2) piridinis; * 3) pirazol is; 4) pirimidinis.
634. romel i heterocikl uri naerTis birTvi gvxdaba piridoqsal Si?
- 1) piranis; 2) pirazol is; 3) piridinis; * 4) pirimidinis.
635. romel i heterocikl uri naerTis birTvi gvxdaba piridoqsaminiSi?
- 1) piranis; 2) pirazol is; 3) pirimidinis; 4) piridinis. *
636. romel i naerTi urTierTqmedebs fenil hidrazinTan?
- 1) piridoqsamini; 2) piridoqsini; 3) piridoqsal i; * 4) piperidini.
637. romel i naerTi urTierTqmedebs natriumis hidrosul fitTan?
- 1) piridoqsamini; 2) piridoqsini; 3) piridoqsal i; * 4) piperidini.
638. romel i naerTi urTierTqmedebs hidroqsil aminTan?
- 1) piridoqsamini; 2) piridoqsini; 3) piridoqsal i; * 4) piperidini.
639. romel i naerTi urTierTqmedebs hirdazinTan?
- 1) piridoqsamini; 2) piridoqsini; 3) piridoqsal i; * 4) piperidini.
640. romel naerTTan ar urTierTqmedebs piridoqsamini?
- 1) hidrazinTan; * 2) natriumis hidroqsidTan;
- 3) mineral ur mJavebTan; 4) eTanol Tan.
641. romel naerTTan ar urTierTqmedebs piridoqsamini?
- 1) hidroqsil aminTan; * 2) natriumis hidroqsidTan;
- 3) mineral ur mJavebTan; 4) eTanol Tan.
642. romel naerTTan ar urTierTqmedebs piridoqsamini?
- 1) semikarbazidTan; * 2) natriumis hidroqsidTan;
- 3) mineral ur mJavebTan; 4) eTanol Tan.
643. romel naerTTan ar urTierTqmedebs piridoqsini?
- 1) mineral ur mJavebTan; 2) hidroqsil aminTan; *
- 3) natriumis hidroqsidTan; 4) eTanol Tan.
644. romel naerTTan ar urTierTqmedebs piridoqsini?
- 1) mineral ur mJavebTan; 2) hidrazinTan; *
- 3) natriumis hidroqsidTan; 4) eTanol Tan.
645. romel naerTTan ar urTierTqmedebs piridoqsini?

- 1) mineral ur mJavebTan; 2) natriumis hidrosul fitTan; *
- 3) natriumis hidroqsidTan; 4) eTanol Tan.
646. skraupis meTodiT qinol inis miRebias iyeneben:
- 1) propanal s; 2) propanol s; 3) propantriol s; * 4) eTandiol s.
647. skraupis meTodiT romel i naerTis misaRebad gamoiyeneba gl icerol i?
- 1) qinonis; 2) qinol inis; * 3) piridinis; 4) pirol is.
648. romel i heterocikl uri naerTis benzol ogia qinol ini?
- 1) piridinis; * 2) pirol is; 3) pirimidinis; 4) imidazol is.
649. romel i heterocikl uri naerTis benzol ogia izoqinol ini?
- 1) piridinis; * 2) pirol is; 3) pirimidinis; 4) imidazol is.
650. romel i preparatis Semadgenl obaSi Sedis 5-eTil -5-fenil barbiturmJava?
- 1) l uminal is; * 2) val okardini; 3) korval ol is; 4) anal ginis.
651. barbiturmJavas nawarmia:
- 1) l uminal i; * 2) val okardini; 3) korval ol i; 4) anal gini.

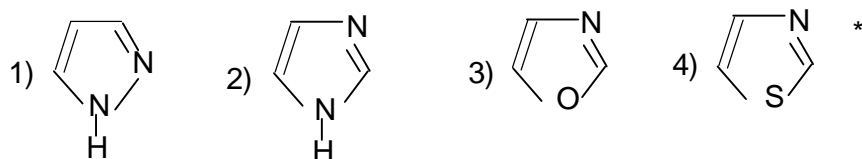
652. romel i heterocikl is fragmenti gv xvdeba B₁ vitaminis Sedgenil obaSi?



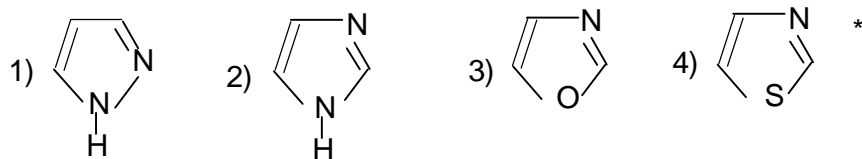
653. romel i heterocikl is srul i hidrirebis Sedegad miRebul i naerTis fragmenti gv xvdeba benzil penicil inis Sedgenil obaSi?



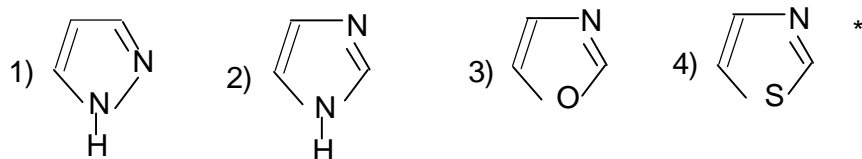
654. romel i heterocikl is srul i hidrirebis Sedegad miRebul i naerTis fragmenti gv xvdeba fenoqsimeTil penicil inis Sedgenil obaSi?



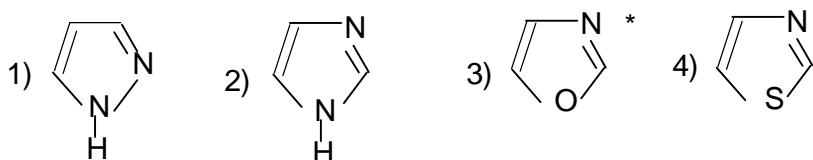
655. romel i heterocikl is srul i hidrirebis Sedegad miRebul i naerTis fragmenti gv xvdeba ampicil inis Sedgenil obaSi?



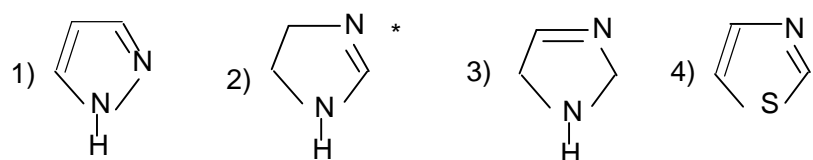
656. romel i heterocikl is fragmenti gv xvdeba kokarboqsil azas Sedgenil obaSi?



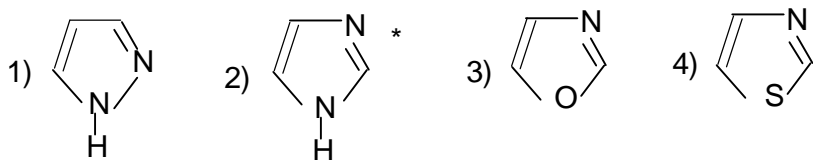
657. romel i heterocikl is nawarmia furazol idoni?



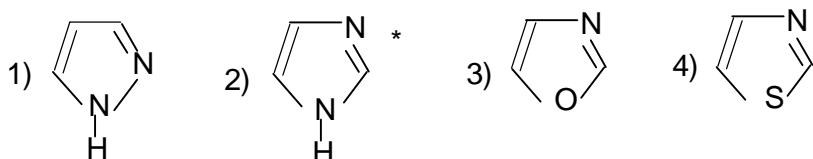
658. romel i heterocikl is nawarmia kl ofel ini?



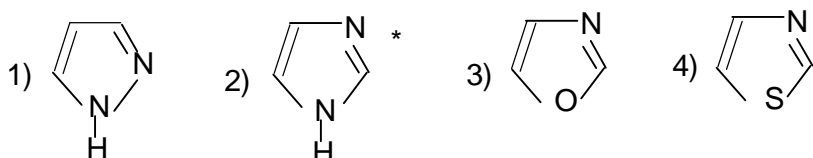
659. romel i heterocikl is benzol ogis nawarmia dibazol i??



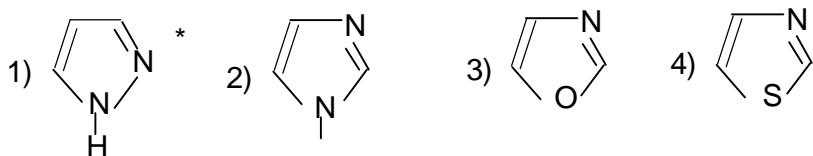
660. romel i heterocikl is nawarmia histamini?



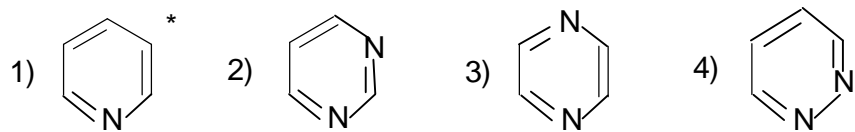
661. romel i heterocikl is nawarmia histidini?



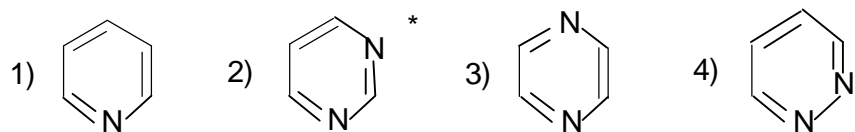
662. romel i heterocikl is nawarmia anal gini?



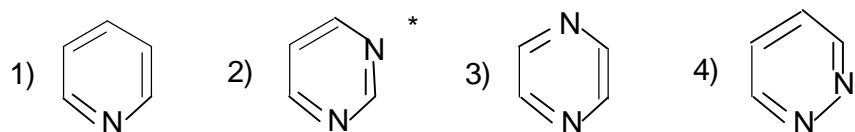
663. romel i heterocikl is nawarmia ni fedipini?



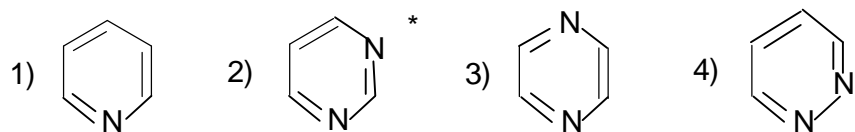
664. romel i heterocikl is nawarmia barbiturmJava?



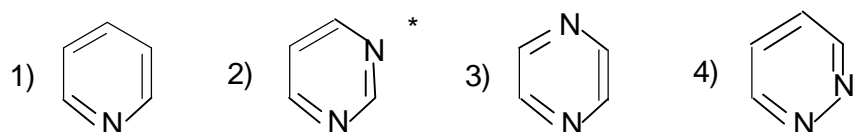
665. romel i heterocikl is nawarmia uracil i?



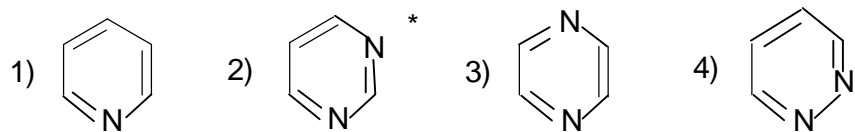
666. romel i heterocikl is nawarmia Timini?



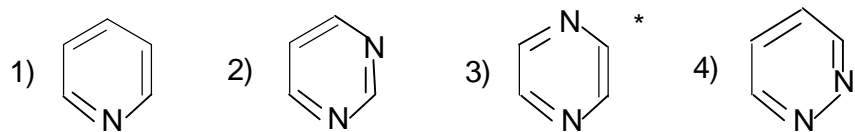
667. romel i heterocikl is nawarmia citozini?



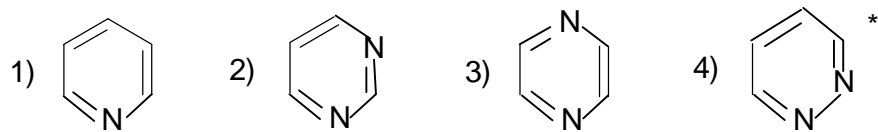
668. romel i formul iTaa gamosaxul i pirimidinis aRnagoba??



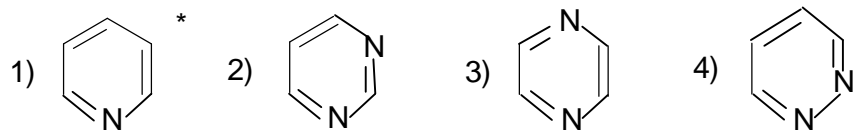
669. romel i formul iTaa gamosaxul i pirazinis aRnagoba??



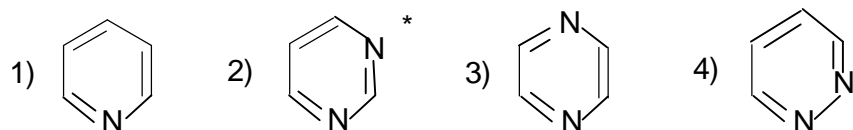
670. romel i formul iTaa gamosaxul i piridazinis aRnagoba??



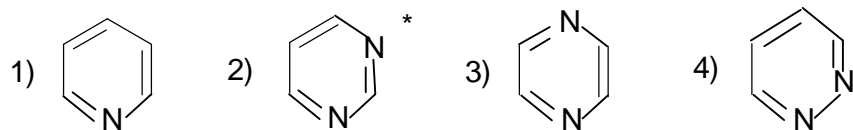
671. romel i heterocikl is benzol oġia qinol ini?



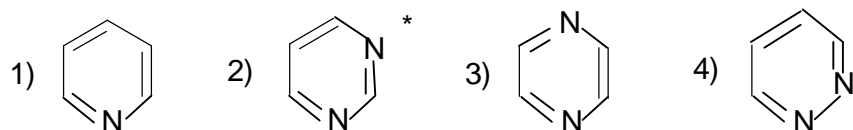
672. romel i heterocikl is fragmenti gvxdaba Tiamini Sedgeni l obaSi?



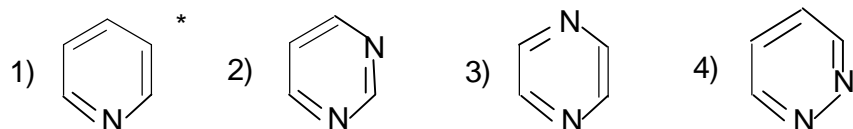
673. romel i heterocikl is fragmenti gvxdaba kokarboqsil azas Sedgeni l obaSi?



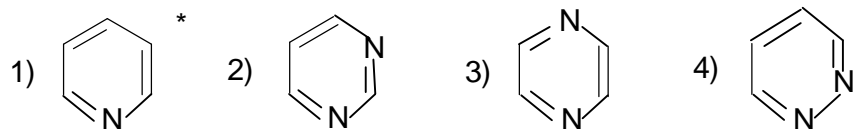
674. romel i heterocikl is nawarmia vitamini B₁?



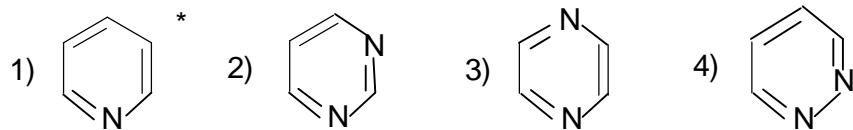
675. romel i heterocikl is nawarmia promedol i?



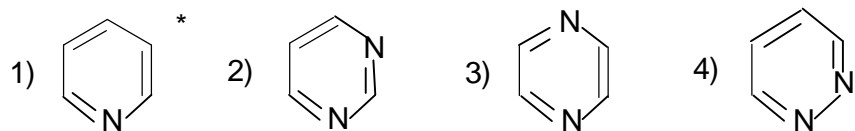
676. romel i heterocikl is nawarmia B₆ vitamini?



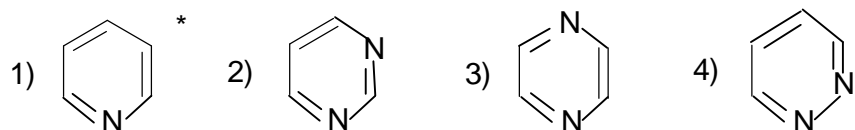
677. romel i heterocikl is nawarmia piri doqsamini?



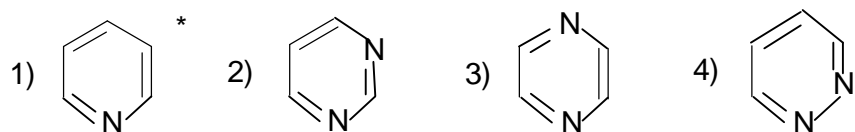
678. romel i heterocikl is nawarmia piridoqsal i?



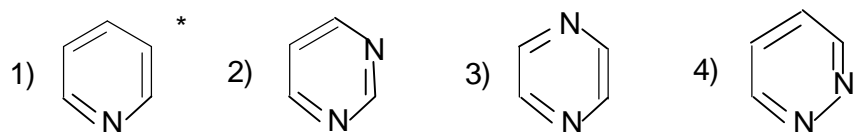
679. romel i heterocikl is nawarmia piridoqsini?



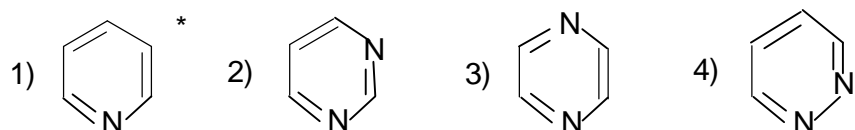
680. romel i heterocikl is nawarmia niacini?



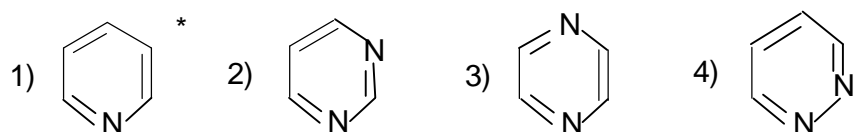
681. romel i heterocikl is nawarmebia pikol inebi?



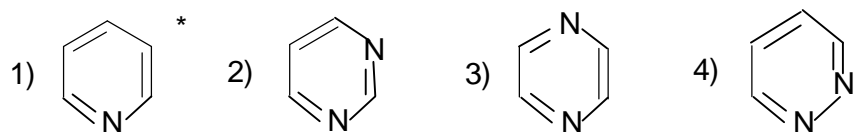
682. romel i heterocikl is nawarmia ftivazidi?



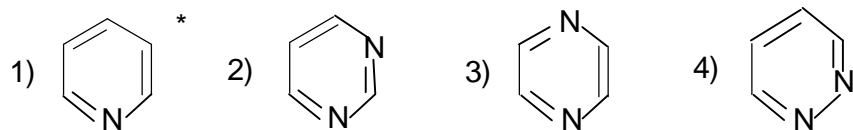
683. romel i heterocikl is nawarmia izoniazidi?



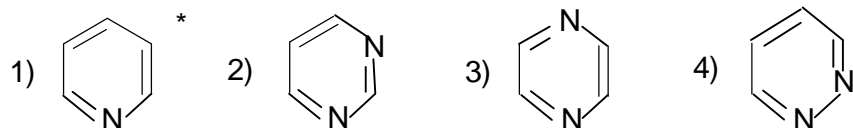
684. romel i heterocikl is nawarmia PPvi tami ni?



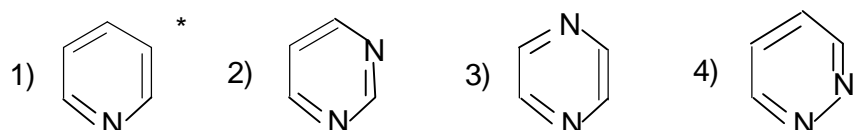
685. romel i heterocikl is nawarmia nikotinamidi?



686. romel i heterocikl is nawarmia nikotinmJava?



687. romel i heterocikl is nawarmia kordiami ni?



688. romel i mJavas nawarmia l uminal i?

1) anTranil mJavasi; 2) barbiturmJavasi; * 3) SardmJavasi; 4) orotmJavasi.

689. romel i heterocikl uri naerTis fragmenti Sedis Tiaminis Semadgenl obaSi?

1) pirazini; 2) piridini; 3) pirimidini; * 4) imidazol i.

690. romel i heterocikl uri naerTis fragmenti Sedis kokarboqsil azas Semadgenl obaSi?

1) pirazini; 2) piridini; 3) pirimidini; * 4) imidazol i.

691. romel i heterocikl uri naerTis fragmenti Sedis Tiaminis Semadgenl obaSi?

1) pirazol i; 2) Tiazol i; * 3) piridini; 4) imidazol i.

692. romel i heterocikl uri naerTis fragmenti Sedis kokarboqsil azas Semadgenl obaSi?

1) pirazol i; 2) Tiazol i; * 3) piridini; 4) imidazol i.

693. romel i heterocikl uri naerTis fragmenti Sedis B₁ vitaminis Semadgenl obaSi?

1) pirazini; 2) piridini; 3) pirimidini; * 4) imidazol i.

694. romel i heterocikl uri naerTis fragmenti Sedis B₁ vitaminis Semadgenl obaSi?

1) pirazol i; 2) Tiazol i; * 3) piridini; 4) imidazol i.

695. Tiaminis wyal xsnari temperaturisadmi mdgradia:

1) tute areSi; 2) mJava areSi; * 3) neitral ur areSi; 4) nebismier areSi.

696. organizmSi B₁ vitaminis moqmedi formaa misi:

1) monofosfati; 2) difosfati; * 3) trifosfati; 4) tetrafosfati.

697. CamoTvl il i naerTebidan romel i ar aris purinis nawarmi?

1) barbiturmJava; * 2) qsanTini; 3) guanini; 4) SardmJava.

698. romel i vitaminis Semadgenl obaSi Sedis benzimidazol uri sistema:

1) retinol i; 2) Tiamini; 3) ciankobal amini; * 4) askorbinmJava.

699. nitrofurfurol is romel nawarms aqvs Zl ieri baqteriocidul i Tvisebebi?

1) oqsims; 2) fenil hidrazons; 3) hidrazons; 4) semikarbazons. *

700. CamoTvl il Tagan romel i cikl ia kondensirebul i β-l aqtamur cikl Tan penicil inebis mol ekul ebSi?

1) furazol idinis; 2) furazol is; 3) Tiazol idinis; * 4) Tiazol is.

701. romel i naerTi mi iReba piridinis srul i hidrirebiT?

1) perhidroazol i; 2) pirazini; 3) piperidini; * 4) pirol idini.

702. romel i naerTis hidrirebiT mi iReba piperidini?

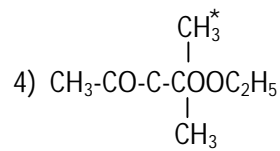
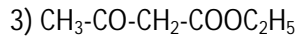
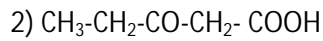
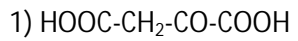
1) pirazol is; 2) pirazinis; 3) pirimidinis; 4) piridinis. *

703. piperidini mi iReba piridinis:

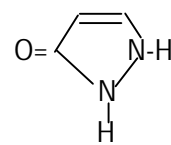
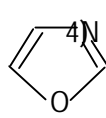
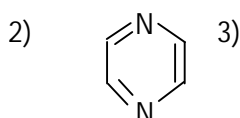
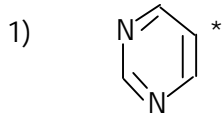
- 1) hidrirebiT; * 2) daJangviT; 3) meTil irebiT; 4) karboqsil irebiT.
 704. romel i heterocikl uri naerTis nawarmia ftivazidi?
 1) piridinis; * 2) pirimidinis; 3) pirazinis; 4) piridazinis.
 705. romel i heterocikl uri naerTis nawarmia izoniazidi?
 1) piridinis; * 2) pirimidinis; 3) pirazinis; 4) piridazinis.
 706. romel i heterocikl uri naerTis nawarmia tubazidi?
 1) piridinis; * 2) pirimidinis; 3) pirazinis; 4) piridazinis.
 707. romel i mJavas hidrazidia tubazidi?
 1) α -piridinkarbonmJavasi; 2) β -piridinkarbonmJavasi;
 3) γ -piridinkarbonmJavasi; * 2) orotmJavasi;
 708. romel i mJavas hidrazidia izoniazidi?
 1) α -piridinkarbonmJavasi; 2) β -piridinkarbonmJavasi;
 3) γ -piridinkarbonmJavasi; * 2) orotmJavasi;
 709. romel i mJavas hidrazidia tubazidi?
 1) nikotinmJavasi; 2) izonikotinmJavasi; *
 3) barbiturmJavasi; 4) benzomJavasi.
 710. romel i mJavas hidrazidia izoniazidi?
 1) nikotinmJavasi; 2) izonikotinmJavasi; *
 3) barbiturmJavasi; 4) benzomJavasi.
 711. romel i naerTis nawarmia izoniazidi?
 1) α -pikolinis; 2) β -pikolinis; 3) γ -pikolinis; * 4) hi poqsanTinis.
 712. romel i naerTis nawarmia ftivazidi?
 1) α -pikolinis; 2) β -pikolinis; 3) γ -pikolinis; * 4) hi poqsanTinis.
 713. romel i naerTis nawarmia tubazidi?
 1) α -pikolinis; 2) β -pikolinis; 3) γ -pikolinis; * 4) hi poqsanTinis.
 714. tubazidi aris izonikotinmJavas:
 1) hidrazidi; 2) semikarbazoni; 3) oqsimi; 4) fenil eTeri.
 715. romel mdgomareobaSi xdeba izoqinol inis nitrirebisas nitroj gufis Canacvl eba?
 1) 2; 2) 3; 3) 4; 4) 5. *
 716. romel mdgomareobaSi xdeba qinol inis nitrirebisas nitroj gufis Canacvl eba?
 1) 3; 2) 4; 3) 5; 4) 6. *
 717. romel mdgomareobaSi xdeba izoqinol inis sul firebisas sul foj gufis Canacvl eba?
 1) 7; * 2) 6; 3) 4; 4) 2.
 718. romel mdgomareobaSi xdeba qinol inis sul firebisas sul foj gufis Canacvl eba?
 1) 7; 2) 8; * 3) 3; 4) 5.
 719. romel i heterocikl is nawarmia enteroseptol i?
 1) pirol idinis; 2) izoqinol inis; 3) qinol inis; * 4) imidazol inis.
 720. romel i heterocikl is nawarmia 5-NOK?
 1) pirol idinis; 2) izoqinol inis; 3) qinol inis; * 4) imidazol inis.
 721. qinol inis nawarmia:
 1) 5-NOK; * 2) val okardini; 3) nitrogl icerini; 4) val idol i.
 722. qinol inis nawarmia:
 1) enteroseptol i; * 2) val okardini; 3) nitrogl icerini; 4) val idol i.
 723. qinol inis daJangvi sas mi iReba:
 1) nikotinmJava; 2) izonikotinmJava; 3) benzomJava; 4) piridindi karbonmJava. *
 724. orze meti heteroatomis Semcvel i heterocikl ia:

- 1) pirazol i; 2) piridazini; 3) purini; * 4) oqsazol i.
725. orze meti heteroatomis Semcvel i heterocikli ia:
1) pirazol i; 2) piridazini; 3) pteridini; * 4) oqsazol i.
726. JagbadSemcvel i eqvswevriani heterocikli ia:
1) piridini; 2) pirani; * 3) oqsazol i; 4) pirol i.
727. mal onmJavas cikl uri ureidia:
1) mal einmJava; 2) SardmJava; 3) orotmJava; 4) barbiturmJava. *
728. romel i mJavas cikl uri ureidia barbiturmJava?
1) qarvamJavasi; 2) gl utarmJavasi; 3) mal einmJavasi; 4) mal onmJavasi. *
729. barbiturmJavas sinTezs axorciel eben mal onis eTeris urTierTqmedebi T:
1) amiakTan; 2) karbamidTan; * 3) kal iumis amidTan; 4) eTil aminTan.
730. mal onis eTeris urTierTqmedebi T amiakTan mi iReba:
1) anTranil mJava; 2) barbiturmJava; * 3) orotmJava; 4) SardmJava.
731. rogori hibridizaciis mdgomareobaSi arsebul i azotis atomis miTiTeba xdeba H-simbol oTi azepinebSi?
1) sp-; 2) sp²-; 3) sp³-; * 4) sp³d.
732. rogori hibridizaciis mdgomareobaSi arsebul i azotis atomis miTiTeba xdeba H-simbol oTi diazepinebSi?
1) sp-; 2) sp²-; 3) sp³-; * 4) sp³d.
733. CamoTvl il i heterocikli ebidan romel ia Svidwevriani?
1) piridini; 2) azepini; * 3) Tiazol i; 4) piirimidini.
734. romel i heterocikli uri naerTis benzol ogis nawarmia sibazoni?
1) Tiazol is; 2) azepinis; 3) pironis; 4) diazepinis.
735. fenazepami aris:
1) 1,2-diazepinis benzol ogis nawarmi; 2) 1,3-diazepinis benzol ogis nawarmi;
3) 1,4-diazepinis benzol ogis nawarmi; * 4) azepinis benzol ogis nawarmi.
736. 1H-azepini aramdgradia da izomerizdeba:
1) 2H-azepinad; 2) 3H-azepinad; * 3) 4H-azepinad; 4) 1,4-diazepinad.
737. bicikl uri heterocikli ia:
1) piridini; 2) azepini; 3) diazepini; 4) pteridini. *
738. bicikl uri heterocikli ia:
1) piridini; 2) azepini; 3) diazepini; 4) purini. *
739. ramdenfuZiani mJavaa SardmJava?
1) erTfuZiani; 2) orfuZiani; * 3) samfuZiani; 4) oTxfuZiani.
740. romel i naerTis nawarmebia uratebi?
1) uracil is; 2) SardmJavasi; * 3) barbiturmJavasi; 4) orotmJavasi.
741. romel i naerTis nawarmia orotmJava?
1) uracil is; * 2) Timinis; 3) barbiturmJavasi; 4) citozinis.
742. uracil is nawarmia:
1) orotmJava; * 2) nikotinmJava; 3) SardmJava; 4) sal icil mJava.
743. tautomeriis romel i tipi aris damaxasiaTebel i l uminal isaTvis?
1) keto-enol uri; 2) l aqtim-l aqtamuri; *
3) amino-iminuri; 4) cikl o-oqso.
744. hipoqsanTinisTvis damaxasiaTebel ia:
1) keto-enol uri tautomeria; 2) l aqtim-l aqtamuri tautomeria; *
3) amino-iminuri tautomeria; 4) cikl o-oqso tautomeria.
745. qsanTinisTvis damaxasiaTebel ia:
1) keto-enol uri tautomeria; 2) l aqtim-l aqtamuri tautomeria; *
3) amino-iminuri tautomeria; 4) cikl o-oqso tautomeria.
746. SardmJavasTvis damaxasiaTebel ia:
1) keto-enol uri tautomeria; 2) l aqtim-l aqtamuri tautomeria; *

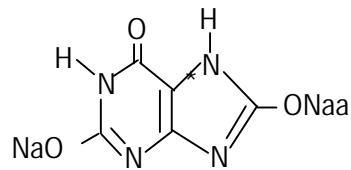
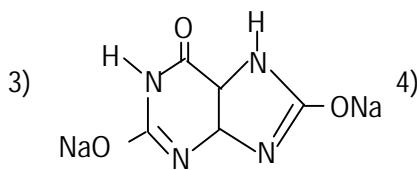
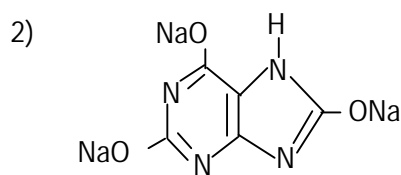
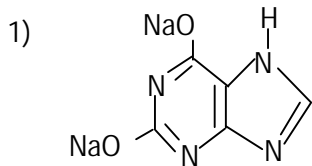
- 3) amino-iminuri tautomeria; 4) cikl o-oqso tautomeria.
747. romel i heterocikl uri naerTis birTvis Semcvel i nivTierebebis aRmosaCenad iyeneben mureqsidul sinj s?
- 1) pirimidini; 2) purini; * 3) pirazol i; 4) pirol i.
748. romel mJavas iyeneben mureqsidul sinj Si?
- 1) azotmJavas; * 2) azotovanmJavas; 3) fosformJavas; 4) gogirdmJavas.
749. CamoTvl il i naerTebidan roml istTvis aris damaxasiaTebel i amino-iminuri tautomeria?
- 1) uracil i; 2) adenini; * 3) qsantini; 4) Timini.
750. CamoTvl il i naerTebidan roml istTvis aris damaxasiaTebel i amino-iminuri tautomeria?
- 1) Timini; 2) SardmJava; 3) hi poqsantini; 4) citozini. *
751. CamoTvl il i naerTebidan roml istTvis aris damaxasiaTebel i amino-iminuri tautomeria?
- 1) guanini; * 2) uracil i; 3) barbiturmJava; 4) Timini.
752. organizmSi nukl einmJavaTa metabol izmis Sedegad warmoiqmneba:
- 1) barbiturmJava; 2) orotmJava; 3) hi poqsantini; * 4) nikotinmJava.
753. organizmSi nukl einmJavaTa metabol izmis Sedegad warmoiqmneba:
- 1) sfingozini; 2) qsantini; * 3) Treonini; 4) qinhi droni.
754. organizmSi purinul naerTTa metabol izmis Sedegad warmoiqmneba:
- 1) barbiturmJava; 2) orotmJava; 3) SardmJava; * 4) nikotinmJava.
755. qsantinis miReba SesaZl ebel ia guaninis urTierTqmedebi T:
- 1) azotmJavasTan; 2) azotovanmJavasTan; *
3) amiakTan; 4) natriumis hidroqsidTan.
756. hi poqsantinis miReba SesaZl ebel ia adeninis urTierTqmedebi T:
- 1) azotmJavasTan; 2) azotovanmJavasTan; *
3) amiakTan; 4) natriumis hidroqsidTan.
757. barbiturmJavas Sedgenil obaSi gvxxvdeba?
- 1) hidroqsil is j gufi; * 2) karboqsil is j gufi;
3) amino-j gufi; 4) sul fo-j gufi.
758. SardmJavas Sedgenil obaSi gvxxvdeba?
- 1) hidroqsil is j gufi; * 2) karboqsil is j gufi;
3) amino-j gufi; 4) sul fo-j gufi.
759. romel i heterocikl is naSTi gvxxvdeba pteridinis Semadgenl obaSi?
- 1) pirazol i; 2) piridazini; 3) imidazol i; 4) pirazini. *
760. romel i heterocikl is naSTi gvxxvdeba pteridinis Semadgenl obaSi?
- 1) pirazol i; 2) pirimidini; * 3) imidazol i; 4) piridazini.
761. romel i heterocikl is naSTi gvxxvdeba purinis Semadgenl obaSi?
- 1) pirazol i; 2) pirimidini; * 3) piridini; 4) piridazini.
762. romel i heterocikl is naSTi gvxxvdeba purinis Semadgenl obaSi?
- 1) pirazol i; 2) pirazini; 3) imidazol i; * 4) piridazini.
763. romel i naerTis daJangvi T ar mi iReba nikotinmJava?
- 1) β -pikol ini; 2) nikotini; 3) anabazini; 4) qinol ini. *
764. romel i naerTis daJangvi T mi iReba nikotinmJava?
- 1) α -pikol inis; 2) β -pikol inis; * 3) γ -pikol inis; 4) qinol inis.
765. romel i naerTis daJangvi T mi iReba izonikotinmJava?
- 1) α -pikol inis; 2) β -pikol inis; 3) γ -pikol inis; * 4) izoqinol inis.
766. romel i mJavas amidis gaxurebi T warmoiqmneba purini?
- 1) meTanmJavas; * 2) eTanmJavas; 3) propanmJavas; 4) nikotinmJavas.
767. romel i naerTistVisaa SeuZl ebel i keto-enol uri tautomeria?



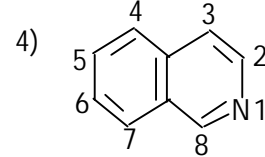
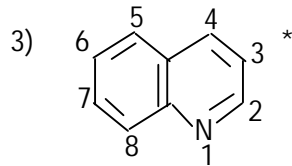
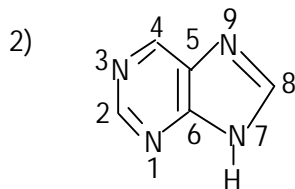
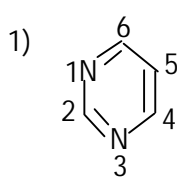
768. romel i heterocikl uri naerTis fragmenti Sedis Tiaminis Semadgenl obaSi?



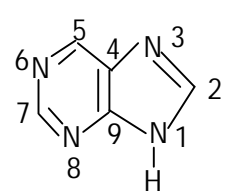
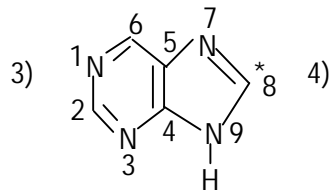
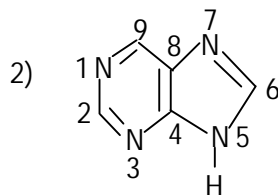
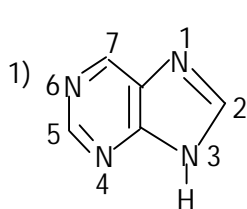
769. SardmJavas srul i maril is aRnagobaa:



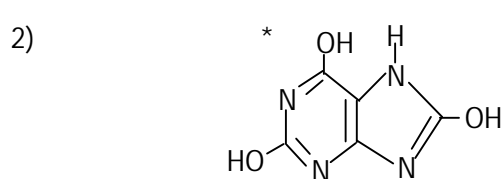
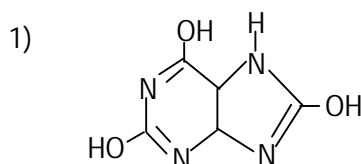
770. heterocikl ur naerTTa danomvris moyvanil i varientevidan romel i Seesabameba IUPAC-is nomenkl aturas?



771. purinis birTvis danomvris moyvanil i variantevidan romel i Seesabameba IUPAC-is nomenkl aturas?



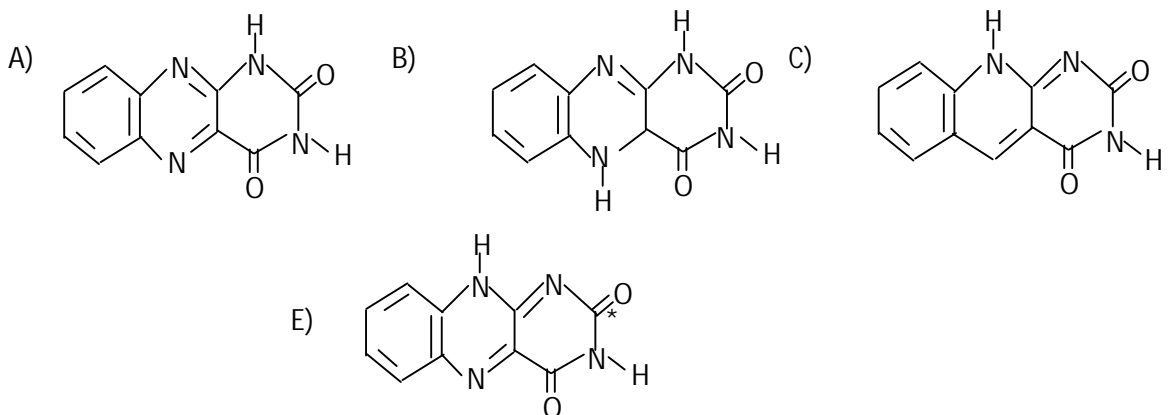
772. romel i naerTis maril ebia cnobil ia uratebis saxel wodebiT?



3)

4)

773. რომელი ფორმული ტაგოსაქული იზოალი ოსაზინის ანაგობა?



774. ფორმადის გაქრები ტში რება:

1) პირიმიდინი; 2) პირაზოლი; 3) პური; * 4) იმიდაზოლი.

775. ვიან ველი მკავას რომელი ნაწარმის გაქრები ტში რება პური?

1) რტული ტერი; 2) ამიდი; * 3) ანიდრიდი; 4) მარილი.

776. რომელი ვიტამინია ცნობილი რიბოფლავინის სახელს ვოდები ტ?

1) B₁; 2) B₂; * 3) B₆; 4) B₁₂;

777. რომელი ნაწარმის ნაწარმია ვიტამინი B₂?

1) ალი ოსაზინი; 2) იზოალი ოსაზინი; * 3) ტიაზოლი; 4) პირიდინი;

778. რომელი ნაწარმის ნაწარმია რიბოფლავინი?

1) ალი ოსაზინი; 2) იზოალი ოსაზინი; * 3) ტიაზოლი; 4) პირიდინი;

779. მოვანილი მკავებიდან რომელი გამოიყენება ალი კალიდი ტადასალი ეკად მათი მარილი ბისქსნარებიდან?

1) მარილი მკავე; 2) გოგირდი მკავე; 3) პიკრინი მკავე; * 4) აზოტი მკავე.

780. რომელი ალი კალიდი ურტირტირტმედებს ნატრიუმის ჰიდროსიდი ტან?

1) კინაქინი; 2) მორფინი; * 3) ნიკოტინი; 4) კოდეინი.

781. რომელი ალი კალიდი ცველი ებრივი პირობებსი მყარ მდგომარეობაში?

1) ნიკოტინი; 2) ანაბაზინი; 3) კონიინი; 4) პაპავერინი. *

782. რომელი ალი კალიდი ცველი ებრივი პირობებსი ტქევადი მდგომარეობაში?

1) კონიინი; * 2) ატროპინი; 3) კოფეინი; 4) პაპავერინი.

783. რომელი ალი კალიდი ცველი ებრივი პირობებსი ტქევადი მდგომარეობაში?

1) ანაბაზინი; * 2) ატროპინი; 3) კოფეინი; 4) პაპავერინი.

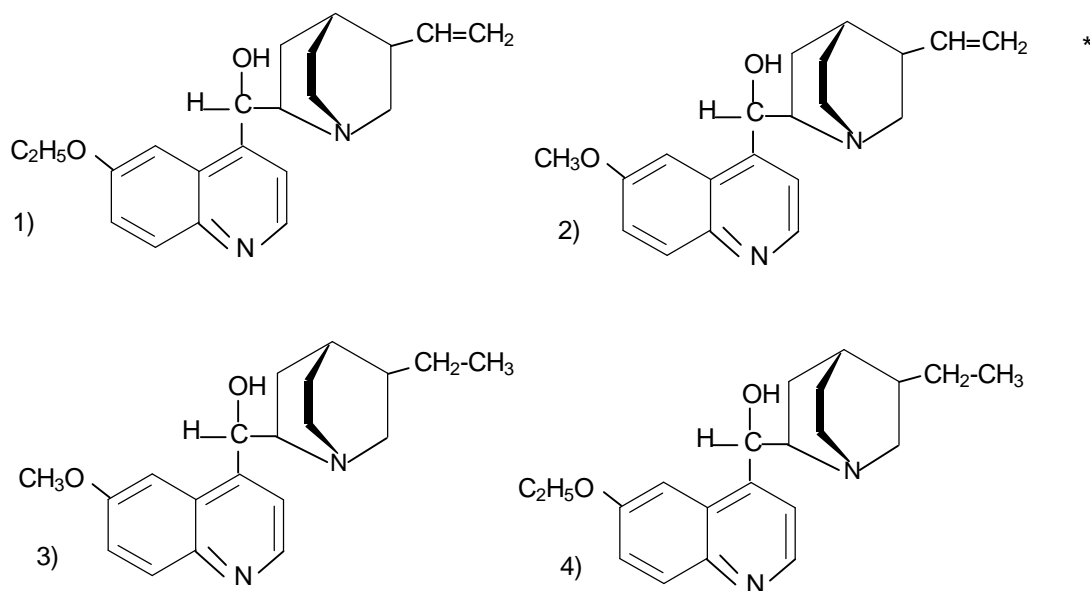
784. რომელი ალი კალიდი ცველი ებრივი პირობებსი ტქევადი მდგომარეობაში?

1) ნიკოტინი; * 2) ატროპინი; 3) კოფეინი; 4) პაპავერინი.

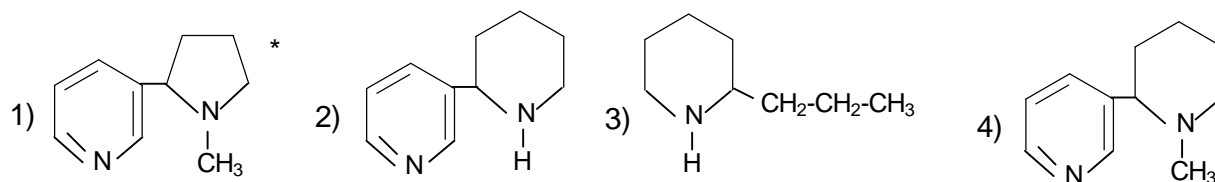
785. romel i mJavas maril ebis saxiT gvxdvdeba nikotini TambaqoSi?
 1) mJaunmJavas; 2) vaSI mJavas; * 3) ZmarmJavas; 4) izol imonmJavas.
786. romel i mJavas maril ebis saxiT gvxdvdeba nikotini TambaqoSi?
 1) mJaunmJavas; 2) rZemJavas; 3) ZmarmJavas; 4) l imonmJavas. *
787. romel i mJavas maril ebis saxiT gvxdvdeba nikotini TambaqoSi?
 1) HOOC-CH₂-C(OH)(COOH)-CH₂-COOH; * 2) HOOC-CHOH-CH(COOH)-CH₂-COOH;
 3) HOOC-CH₂-COOH; 4) CH₃-CHOH-COOH.
788. romel i al kal oidis sinTezuri anal ogis no-Spa?
 1) atropinis; 2) kokainis; 3) papaverinis; * 4) kodeinis.
789. romel i al kal oidi gamoiyeneba ofTal mol ogiaSi (Tval is gugis gasafarToebl ad)?
 1) atropini; * 2) kokaini; 3) papaverini; 4) nikotini.
790. romel i j gufis al kal oidia papaverini?
 1) izoqinol inis; * 2) qinol inis; 3) piridinis; 4) tropanis.
791. romel i j gufis al kal oidia qinaqini?
 1) izoqinol inis; 2) qinol inis; * 3) piridinis; 4) tropanis.
792. romel i j gufis al kal oidia koniini?
 1) izoqinol inis; 2) qinol inis; 3) piridinis; * 4) tropanis.
793. romel i j gufis al kal oidia nikotini?
 1) izoqinol inis; 2) qinol inis; 3) piridinis; * 4) purinis.
794. romel i j gufis al kal oidia anabazini?
 1) izoqinol inis; 2) qinol inis; 3) piridinis; * 4) tropanis.
795. romel i j gufis al kal oidia kofeini?
 1) purinis; * 2) qinol inis; 3) piridinis; 4) tropanis.
796. romel i j gufis al kal oidia Teofil ini?
 1) izoqinol inis; 2) purinis; * 3) piridinis; 4) izoqinol inofenanTrenis.
797. romel i j gufis al kal oidia Teobromini?
 1) purinis; * 2) qinol inis; 3) piridinis; 4) tropanis.
798. romel i j gufis al kal oidia kodeini?
 1) izoqinol inis; 2) purinis; 3) piridinis; 4) izoqinol inofenanTrenis. *
799. romel i j gufis al kal oidia Tebaini?
 1) izoqinol inis; 2) purinis; 3) piridinis; 4) izoqinol inofenanTrenis. *
800. romel i j gufis al kal oidia morfini?
 1) izoqinol inis; 2) purinis; 2) piridinis; 4) izoqinol inofenanTrenis. *
801. izoqinol inis j gufis al kal oidia:
 1) nikotini; 2) qinaqini; 3) papaverini. * 4) morfini.
802. izoqinol inofenanTrenis j gufis al kal oidia:
 1) nikotini; 2) qinaqini; 3) papaverini. 4) morfini. *
803. izoqinol inofenanTrenis j gufis al kal oidia:
 1) nikotini; 2) qinaqini; 3) papaverini. 4) Tebaini. *
804. izoqinol inofenanTrenis j gufis al kal oidia:
 1) kodeini; * 2) kokaini; 3) koniini; 4) kofeini.
805. piridinis j gufis al kal oidia:
 1) nikotini; * 2) kokaini; 3) papaverini; 4) atropini.
806. piridinis j gufis al kal oidia:
 1) kodeini; 2) kokaini; 3) koniini; * 4) kofeini.
807. piridinis j gufis al kal oidia:
 1) anabazini; * 2) kokaini; 3) papaverini; 4) atropini.
808. tropanis j gufis al kal oidia:

- 1) kodeini; 2) kokaini; * 3) koni ini; 4) kofeini.
809. tropanis j gufis al kal oidia:
 1) kodeini; 2) atropini; * 3) koni ini; 4) kofeini.
810. purinis j gufis al kal oidia:
 1) qinaqini; 2) papaverini; 3) Teofil ini; * 4) nikotini.
811. purinis j gufis al kal oidia:
 1) kodeini; 2) kokaini; 3) koni ini; 4) kofeini. *
812. purinis j gufis al kal oidia:
 1) qinaqini; 2) papaverini; 3) Teobromini; * 4) nikotini.

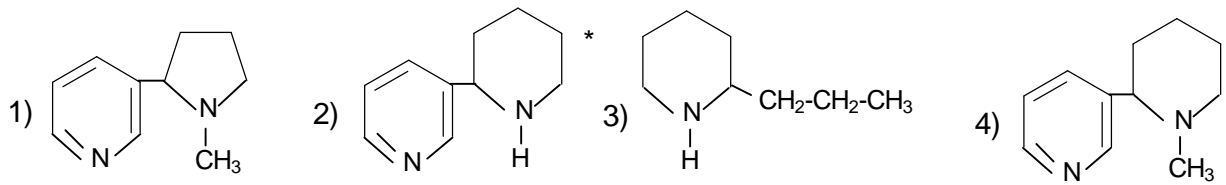
813. romel i formul iTaa gamosaxul i qinaqinis aRnagoba?



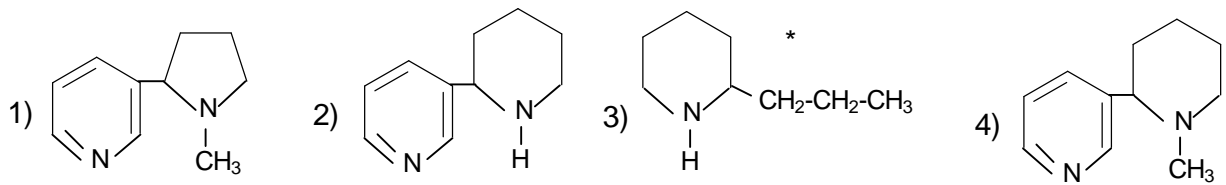
814. romel i formul iTaa gamosaxul i nikotinis aRnagoba?



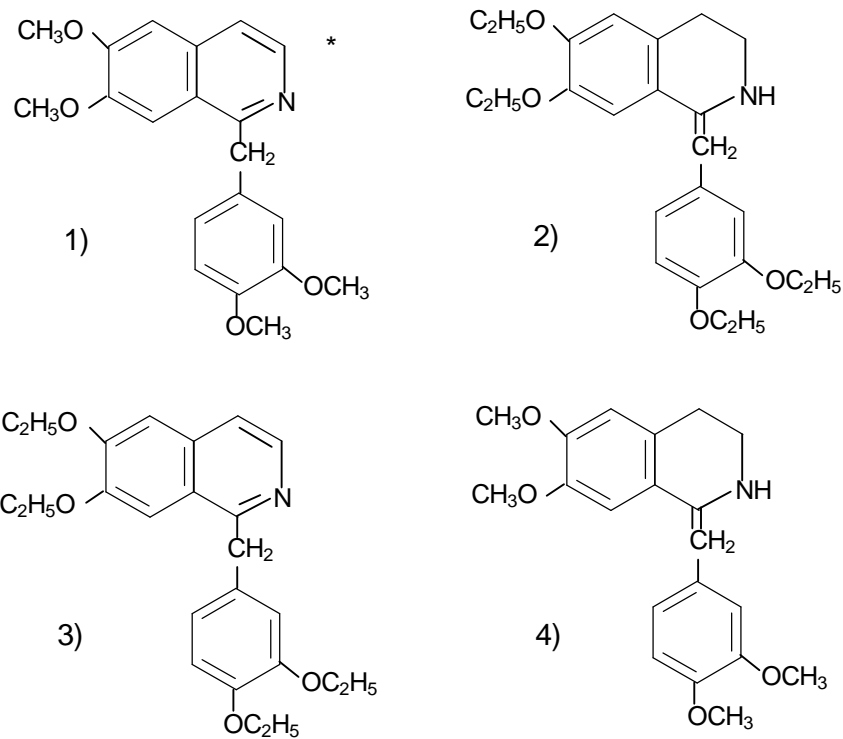
815. romel i formul iTaa gamosaxul i anabazini nis aRnagoba?



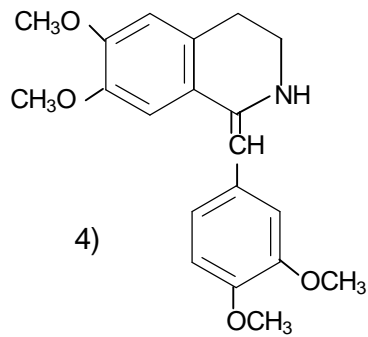
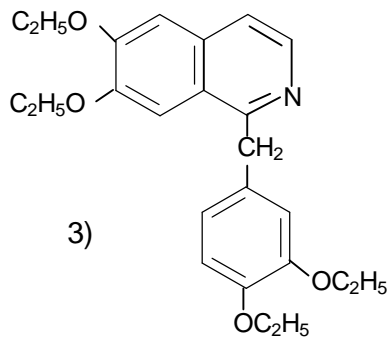
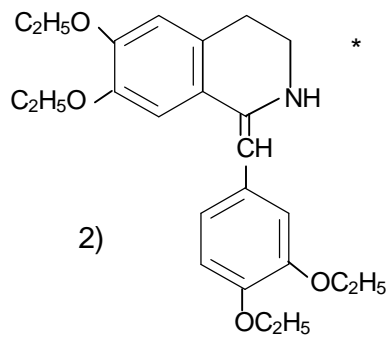
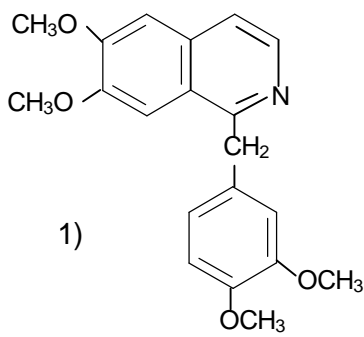
816. romel i formul iTaa gamosaxul i koniinis aRnagoba?



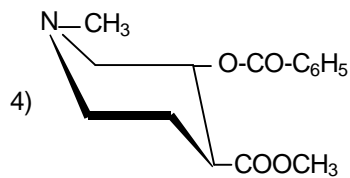
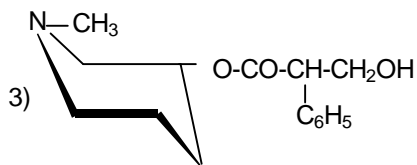
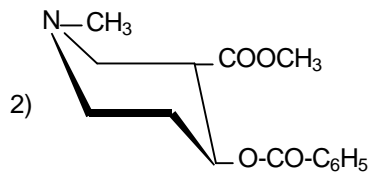
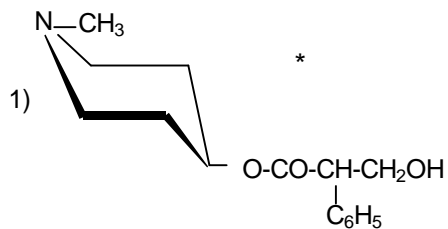
817. romel i formul iTaa gamosaxul i papaverinis aRnagoba?



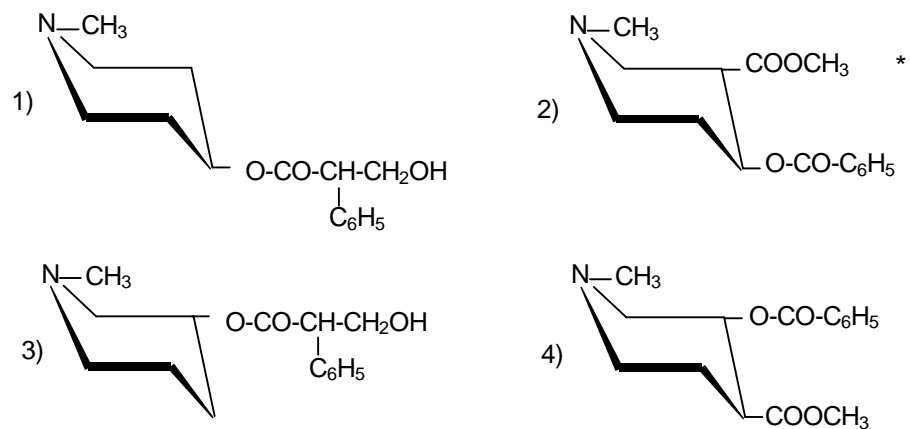
818. romel i formul iTaa gamosaxul i no-Spas aRnagoba?



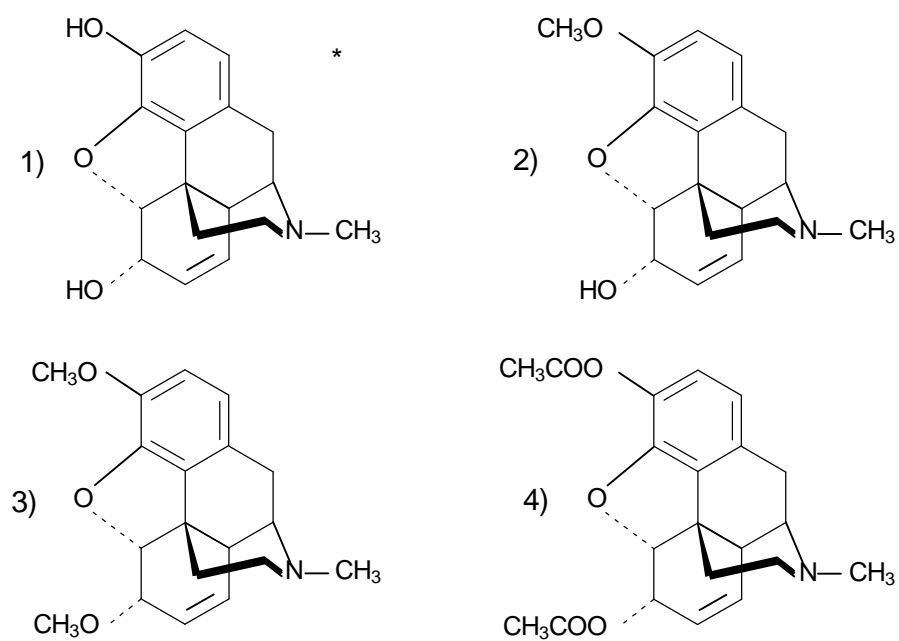
819. romel i formul iTaa gamosaxul i atropinis aRnagoba?



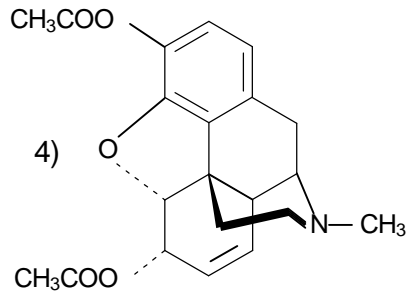
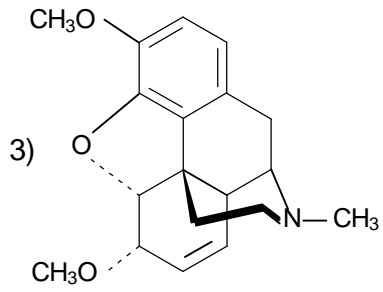
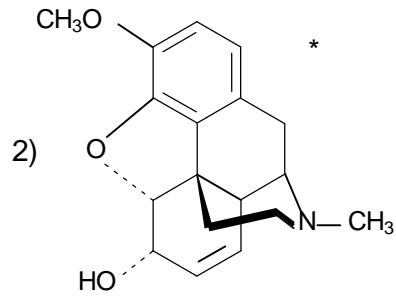
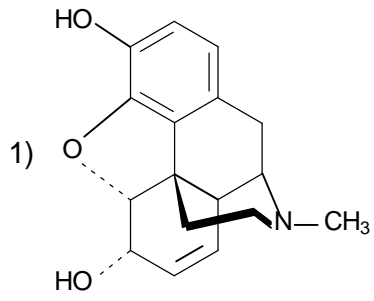
820. romel i formul iTaa gamosaxul i kokainis aRnagoba?



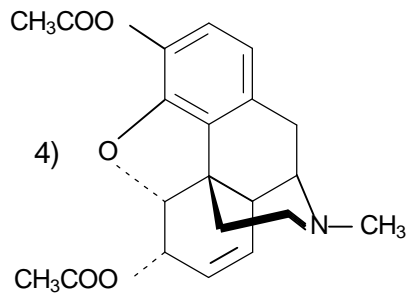
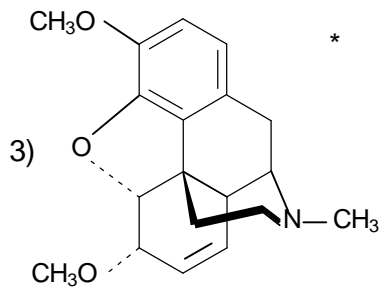
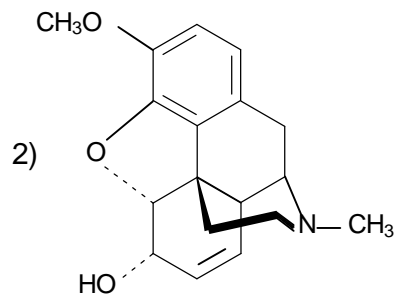
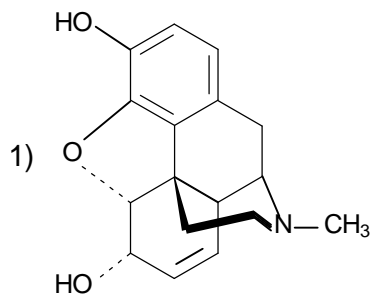
821. romel i formul iTaa gamosaxul i morfinitis aRnagoba?



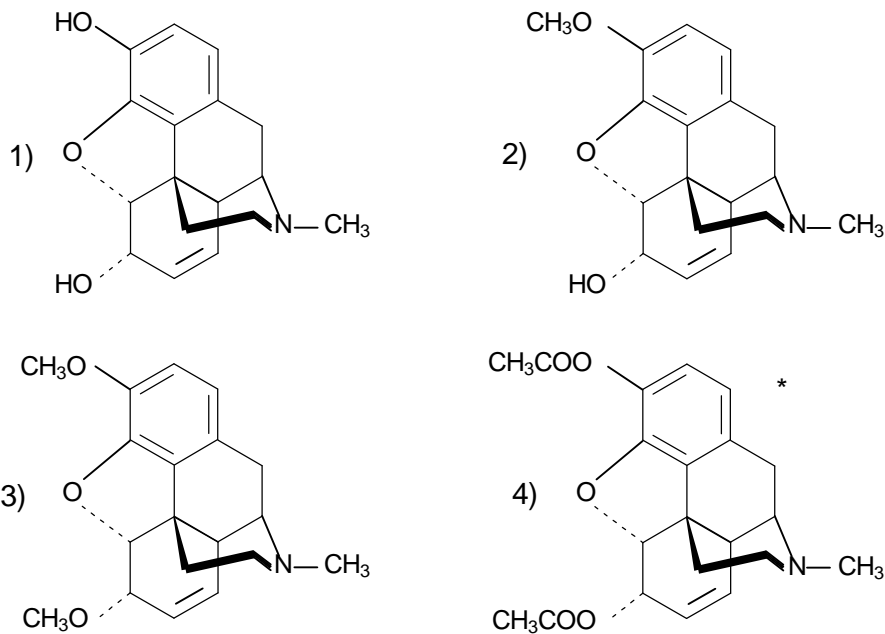
822. romel i formul iTaa gamosaxul i kodeinitis aRnagoba?



823. romel i formul iTaa gamosaxul i Tebainis aRnagoba?



824. romel i formul iTaa gamosaxul i heroinis aRnagoba?



825. purinis j gufis al kal oidia:

1) Teofil ini; * 2) kokaini; 3) koni ini; 4) kodei ni.

826. romel i mtkicebaa arasamarTI iani morfina saTvis?

1) reagirebs natriumis hidroqsidTan; 2) reagirebs hidrazinTan; *
3) reagirebs eTanol Tan; 4) reagirebs ZmarmJavasTan.

827. kodeini ar urTierTqmedebs:

1) natriumTan; 2) ZmarmJavasTan;
3) meTanol Tan; 4) natriumis hidroqsidTan. *

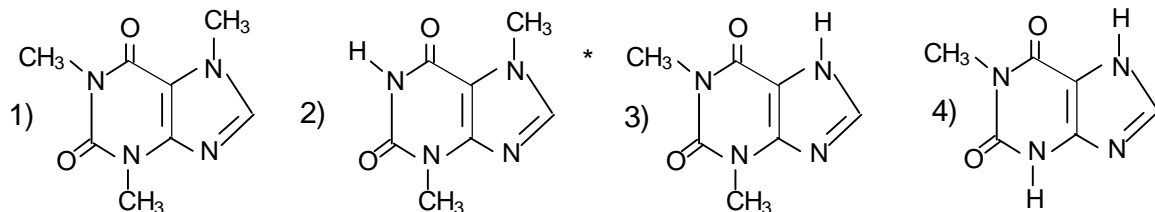
828. kodeini ar urTierTqmedebs:

1) natriumTan; 2) ZmarmJavasTan; 3) meTanol Tan; 4) hidroqsil aminTan. *

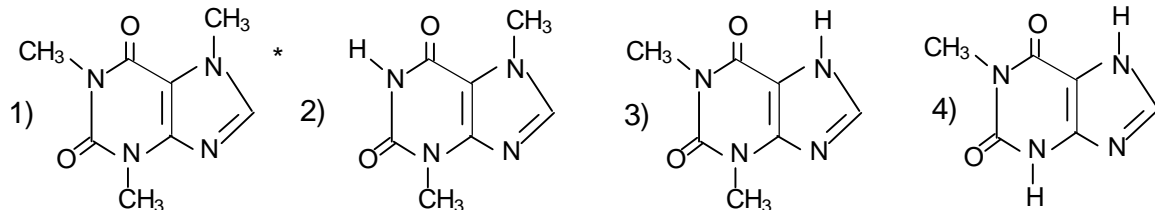
829. bromian wyal Tan ar urTierTqmedebs:

1) qinaqini; 2) morfina; 3) kodeini; 4) koni ini. *

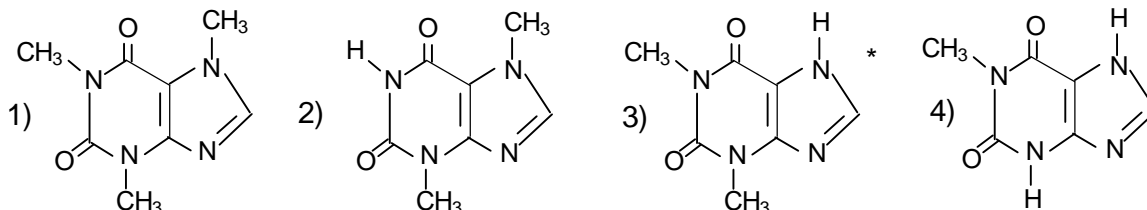
830. romel i formul iTaa gamosaxul i Teobrominis aRnagoba?



831. romel i formul iTaa gamosaxul i kofeinis aRnagoba?



832. romel i formul iTaa gamosaxul i Teofil inis aRnagoba?



833. romel i al kal oidia Zal ian axl os aRnagobiT kateqol aminebTan?

1) qinaqini; 2) kodeini; 3) efedrini; * 4) kofeini.

834. romel i al kal oidi urTierTqmedebs natriumis hidroqsidTan?

1) qinaqini; 2) morfini; * 3) nikotini; 4) kodeini.

835. romel i radikal iTaa CanacvI ebul i morfins mol ekul is piperidinul azotis atomTan dakavSirebul i meTil is jgufi preparat nal orfinSi?

1) al il is; * 2) propil is; 3) vinil is; 4) eTil is.

836. romel i naerTis naSTi ar Sedis rogorc dnm, ise rnm SemadgenI obaSi?

1) Ura; * 2) Gua; 3) Ade; 4) Cyt.

837. romel i naerTis naSTi ar Sedis rogorc dnm, ise rnm SemadgenI obaSi?

1) Gua; 2) Thy; * 3) Ade; 4) Cyt.

838. FAD Jangva-aRdgeniT procesebSi monawil eobs:

1) ribitol uri fragmentis xarj ze; 2) adeninuri fragmentis xarj ze;
3) al oqsazinuri fragmentis xarj ze; 4) izoal oqsazinuri fragmentis xarj ze. *

839. FADH₂ Jangva-aRdgeniT procesebSi monawil eobs:

1) ribitol uri fragmentis xarj ze; 2) adeninuri fragmentis xarj ze;
3) al oqsazinuri fragmentis xarj ze; 4) izoal oqsazinuri fragmentis xarj ze. *

840. NAD⁺ Jangva-aRdgeniT procesebSi monawil eobs:

1) ribitol uri fragmentis xarj ze; 2) nikotinamiduri fragmentis xarj ze; *
3) al oqsazinuri fragmentis xarj ze; 4) izoal oqsazinuri fragmentis xarj ze.

841. NADH Jangva-aRdgeniT procesebSi monawil eobs:

1) ribitol uri fragmentis xarj ze; 2) nikotinamiduri fragmentis xarj ze; *
3) al oqsazinuri fragmentis xarj ze; 4) izoal oqsazinuri fragmentis xarj ze.

842. adeninis kompl ementarul i fuZea:

1) Timini; * 2) uracil i; 3) citozini; 4) guanini.

843. guaninis kompl ementarul i fuZea:

1) Timini; 2) uracil i; 3) citozini; * 4) adenini.

844. Timinis kompl ementarul i fuZea:

1) guanini; 2) uracil i; 3) citozini; 4) adenini. *

845. citozinis kompl ementarul i fuZea:

1) Timini; 2) uracil i; 3) citozini; 4) guanini. *

846. ramdeni wyal baduri bma SeiZl eba damyardes kompl ementarul fuZeebs Soris?

1) 1; 2) 3; * 3) 4; 4) 5.

847. ramdeni wyal baduri bma SeiZl eba damyardes kompl ementarul fuZeebs Soris?

1) 2; * 2) 4; 3) 6; 4) 5.

848. kofermenti A aaqtiurebs:

1) al dehidbebs; 2) spirtebs; 3) karbonmJavebs; * 4) Tiol ebs;

849. kofermenti A-s rTul i eTerebidan romel i mJavas eTeria yvel aze ufro gavr cel ebul i?

1) meTanmJavasi; 2) eTanmJavasi; * 3) propanmJavasi; 4) panTotenmJavasi.

850. kofermenti A-s rTul i eTerebidan romel ia yvel aze ufro gavr cel ebul i?

1) HCO-SCoA; 2) CH₃CO-SCoA; * 3) CH₃CH₂CO-SCoA; 4) C₃H₇CO-SCoA.

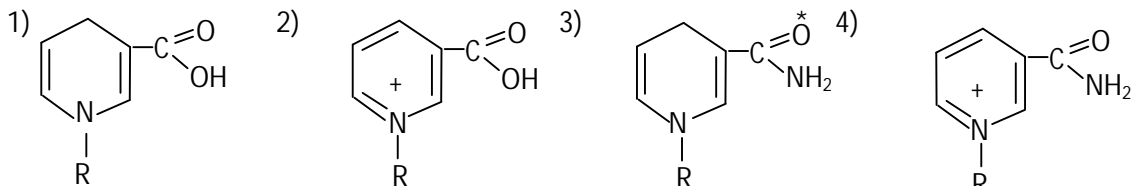
851. koferment A-Si pirofosfaturi j gufiT erTmaneTs ukavSirdeba pantoTenmJava da:

1) adenil mJava; * 2) guanil mJava; 3) uridil mJava; 4) citidil mJava.

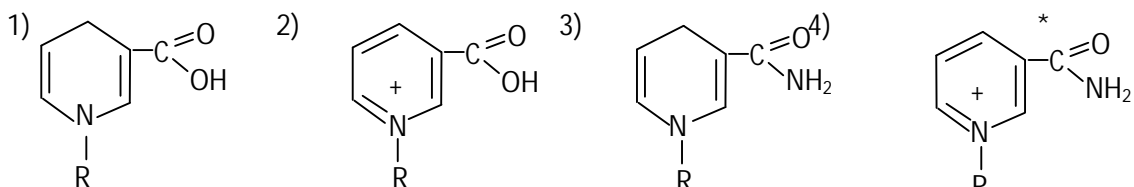
852. koenzim A-Si adenil mJava da pantoTenmJava erTmaneTs ukavSirdeba:

1) fosfaturi j gufiT; 2) difosfaturi j gufiT; *
3) trifosfaturi j gufiT; 4) tetrafosfaturi j gufiT.

853. romel i formul iTaa gamosaxul i NADH-is nikotinamiduri fragmenti?



854. romel i formul iTaa gamosaxul i NAD⁺-is nikotinamiduri fragmenti?



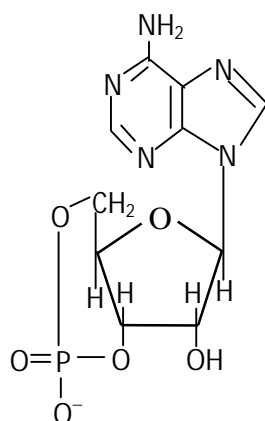
855. nukl eozidTa 5'-fosfatebis gamosaxvisaTvis iyeneben aRni Svnas:

1) Np; 2) N(5')p; 3) pN; * 4) p(5')N.

856. nukl eozidTa 3'-fosfatebis gamosaxvisaTvis iyeneben aRni Svnas:

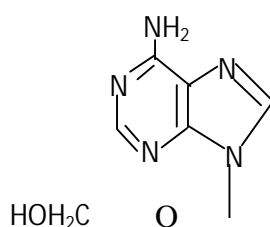
1) N(3')p; 2) p(3')N; 3) pN; 4) Np.*

857. romel i aRni Svnaa samarTI iani Semdegi naerTisaTvis?



- 1) A>p
2) A(3',5')p
3) dA(3',5')p
4) A(3',5')>p*

858. romel i aRni Svnaa samarTI iani Semdegi naerTisaTvis?



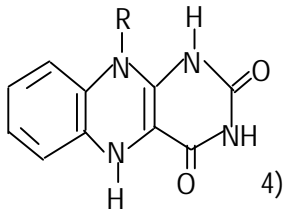
- 1) A>p *
2) dA>p

3) A(2',3')p

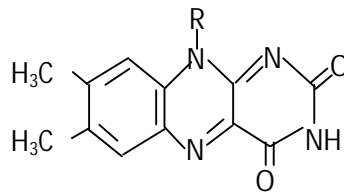
4) cAMP

859. moyvani i formul ebidan romeli Seesabameba FADH₂-is izoal oqsazinur fragments?

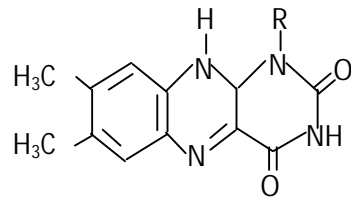
1)



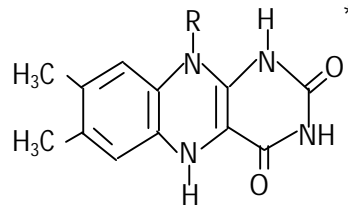
2)



3)

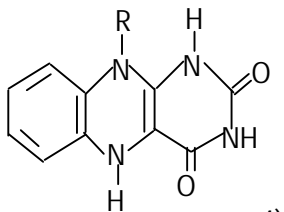


4)

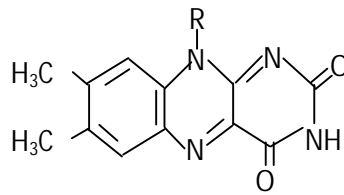


860. moyvani i formul ebidan romeli Seesabameba FAD-is izoal oqsazinur fragments?

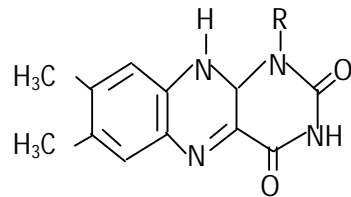
1)



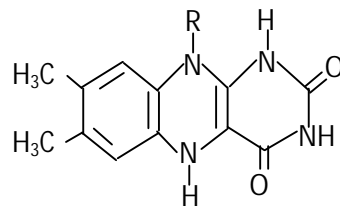
2)



* 3)

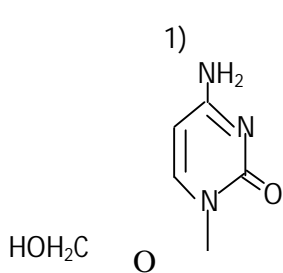


4)

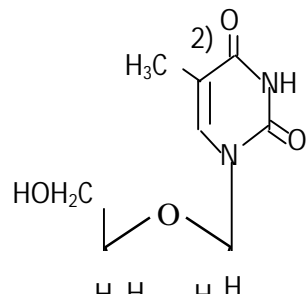


861. romeli i formul iTaa gamosaxul i Timidini?

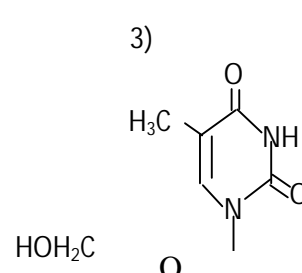
1)

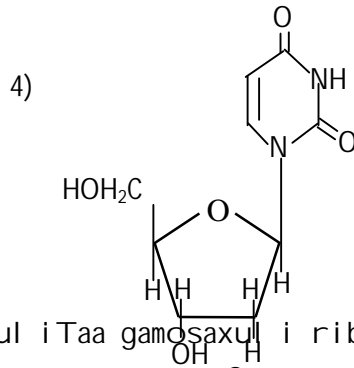


2)

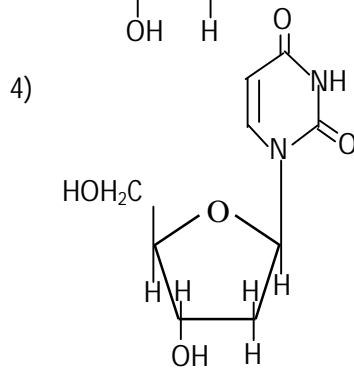
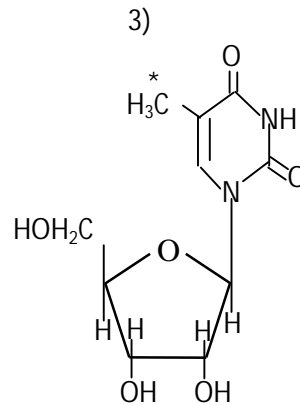
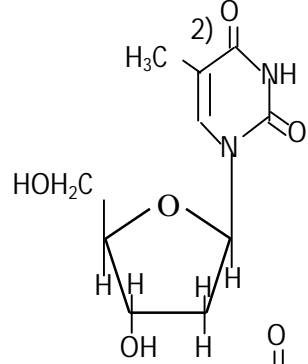
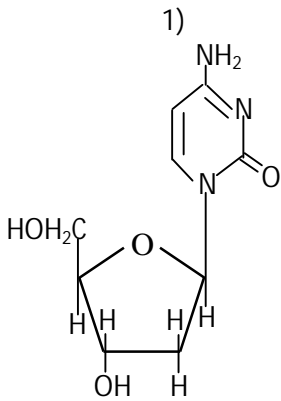


3)

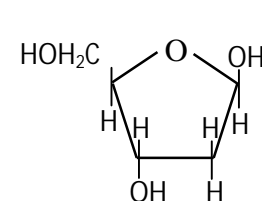
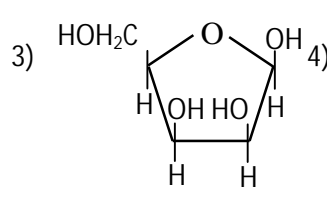
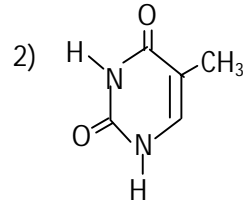
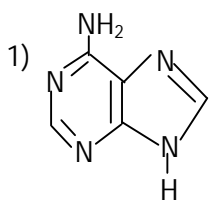




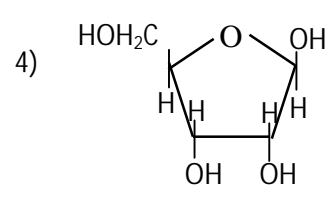
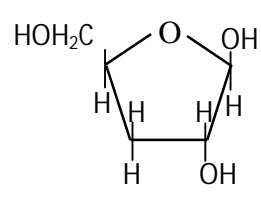
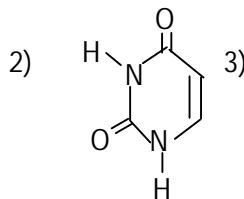
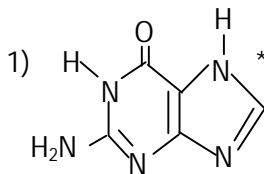
862. რომელი ფორმული ტაგანოსაქული რიბოტიმინი?



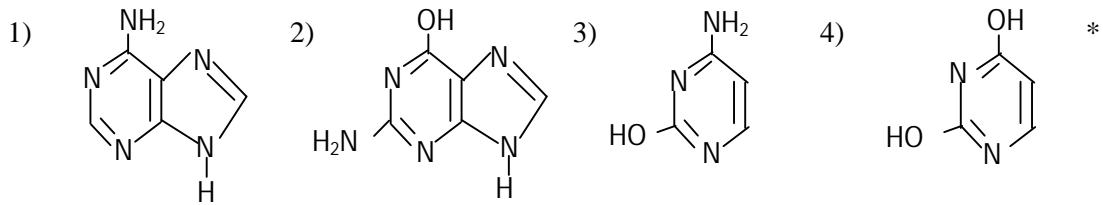
863. რიბონუკლეინების სახეები:



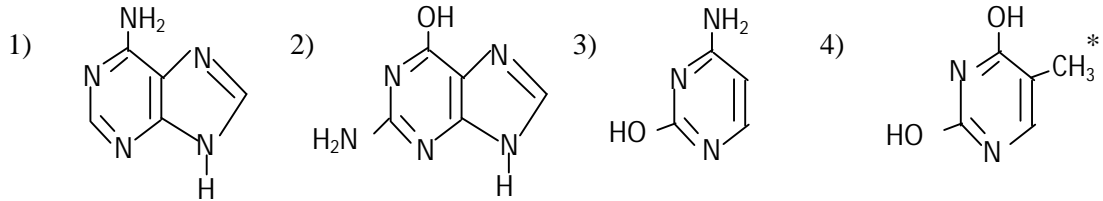
864. დეოზირიბონუკლეინების სახეები:



865. romel i naerTis naSTi ar gvxdaba rogorc dnm, ise rnm Semdgenil obaSi?



866. romel i naerTis naSTi ar gvxdaba rogorc dnm, ise rnm Semdgenil obaSi?



867. 9,12-oqtadekadienmJavas trivial uri saxel wodebaa:

1) l inol mJava; * 2) pal mitol einmJava; 3) ol einmJava; 4) l inol enmJava.

868. 9,12,15-oqtadekatrienmJavas trivial uri saxel wodebaa:

1) l inol mJava; 2) pal mitol einmJava; 3) ol einmJava; 4) l inol enmJava. *

869. oqtadekanmJavas trivial uri saxel wodebaa:

1) pal mitinmJava; 2) pal mitol einmJava; 3) stearnmJava; * 4) l inol enmJava.

870. l inetol is Semadgenl obaSi ar Sedis:

1) l inol mJava; 2) ol einmJava; 3) l inol enmJava; 4) araqidonmJava. *

871. l inetol is Semadgenl obaSi ar Sedis:

1) l inol mJava; 2) el aidinmJava; * 3) l inol enmJava; 4) ol einmJava.

872. romel i cximovani mJavas mol ekul a Seicavs j erad bmas?

1) araqidmJava; 2) kapronmJava; 3) pal mitol einmJava; * 4) stearinmJava.

873. romel i cximovani mJavas mol ekul a Seicavs j erad bmas?

1) kapronmJava; 2) kapril mJava; 3) nervonmJava; * 4) stearinmJava.

874. romel i cximovani mJavas mol ekul a ar Seicavs j erad bmas?

1) araqidonmJava; 2) l inol mJava; 3) pal mitol einmJava; 4) stearinmJava. *

875. romel i cximovani mJavas mol ekul a ar Seicavs j erad bmas?

1) araqidmJava; * 2) l inol mJava; 3) pal mitol einmJava; 4) l inol enmJava.

876. romel i cximovani mJava Sedis Fvitaminis Semadgenl obaSi?

1) l aurinmJava; 2) l inol mJava; * 3) araqidmJava; 4) stearinmJava.

877. romel i cximovani mJava Sedis Fvitaminis Semadgenl obaSi?

1) pal mitol einmJava; 2) kapril mJava; 3) l inol mJava; * 4) stearinmJava.

878. romel i cximovani mJava Sedis Fvitaminis Semadgenl obaSi?

1) pal mitinmJava; 2) behenmJava; 3) araqidmJava; 4) ol einmJava. *

879. romel i cximovani mJava Sedis Fvitaminis Semadgenl obaSi?

1) pal mitol einmJava; 2) kapril mJava; 3) araqidonmJava; * 4) stearinmJava.

880. romel i cximovani mJava Sedis Fvitaminis Semadgenl obaSi?

1) pal mitinmJava; 2) behenmJava; 3) araqidmJava; 4) l inol enmJava. *

881. moyvanil i cximovani mJavebidan romel Si ar gvxdaba ol -cis-izomeria?

1) araqidonmJava; 2) l inol mJava; 3) l inol enmJava; 4) pal mitinmJava. *

882. moyvanil i cximovani mJavebidan romel Si gvxdaba ol -cis-izomeria?

1) araqidmJava; 2) l aurinmJava; 3) l inol enmJava; * 4) pal mitinmJava.

883. moyvanil i cximovani mJavebidan romel Si gvxdaba ol -cis-izomeria?

1) araqidmJava; 2) I aurinmJava; 3) araqidonmJava; * 4) pal mitinmJava.

884. rogor SeiZI eba gamoisaxos ol einmJavas aRnagoba?

1) $\Delta 9 - cis, 18:1; *$ 2) $\Delta 5,8,11,14 - yvel a cis, 20:4;$
3) $\Delta 9,12,15 - yvel a cis, 18:3;$ 4) $\Delta 9,12 - yvel a cis, 18:2.$

885. rogor SeiZI eba gamoisaxos I inol mJavas aRnagoba?

1) $\Delta 9,12,15,18 - yvel a cis, 20:4;$ 2) $\Delta 5,8,11,14 - yvel a cis, 20:4;$
3) $\Delta 9,12,15 - yvel a cis, 18:3;$ 4) $\Delta 9,12 - yvel a cis, 18:2. *$

886. rogor SeiZI eba gamoisaxos I inol enmJavas aRnagoba?

1) $\Delta 9,12,15,18 - yvel a cis, 20:4;$ 2) $\Delta 5,8,11,14 - yvel a cis, 20:4;$
3) $\Delta 9,12,15 - yvel a cis, 18:3; *$ 4) $\Delta 9,12 - yvel a cis, 18:2.$

887. rogor SeiZI eba gamoisaxos araqidonmJavas aRnagoba?

1) $\Delta 9,12,15,18 - yvel a cis, 20:4;$ 2) $\Delta 5,8,11,14 - yvel a cis, 20:4; *$
3) $\Delta 9,12,15 - yvel a cis, 18:3;$ 4) $\Delta 9,12 - yvel a cis, 18:2.$

888. romel mJavas Seesabameba cifrobrivi simbol o: 16:1 (9)?

1) pal mitol einmJava; * 2) ol einmJava; 3) I inol mJava; 4) I inol enmJava.

889. romel mJavas Seesabameba cifrobrivi simbol o: 18:1 (9)?

1) pal mitol einmJava; 2) ol einmJava; * 3) I inol mJava; 4) I inol enmJava.

890. romel mJavas Seesabameba cifrobrivi simbol o: 18:2 (9,12)?

1) pal mitol einmJava; 2) ol einmJava; 3) I inol mJava; * 4) I inol enmJava.

891. romel mJavas Seesabameba cifrobrivi simbol o: 18:3 (9, 12, 15)?

1) pal mitol einmJava; 2) ol einmJava; 3) I inol mJava; 4) I inol enmJava. *

892. romel mJavas Seesabameba cifrobrivi simbol o: 20:4 (5,8,11,14)?

1) araqidonmJava; * 2) ol einmJava; 3) I inol mJava; 4) I inol enmJava.

893. moyvani i naerTebidan romel Si ar gvxdeba ol -cis-izomeria?

1) araqidmJava; * 2) I inol mJava; 3) I inol enmJava; 4) araqidonmJava.

894. cximovani karbonmJavebis mol ekul ebSi pirveli ormagi bma, Cveul ebriv, mdebareobs:

1) C-5 – C-6 atomebs Soris; 2) C-6 – C-7 atomebs Soris;
3) C-8 – C-9 atomebs Soris; 4) C-9 – C-10 atomebs Soris. *

895. cximovani karbonmJavebis mol ekul ebSi ormagi bmebi erTmaneTisgan gamoyofil ia:

1) meTil is j gufiT; 2) meTil enis j gufiT; * 3) meTinis j gufiT; 4) eTil is j gufiT.

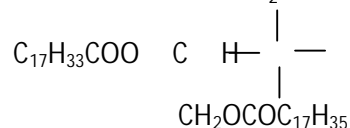
896. ramdeni meTil enis j gufiTaa gamoyofil i erTmaneTisgan ormagi bmebi araqidonmJavas mol ekul aSi?

1) 1; * 2) 2; 3) 3; 4) 4.

897. ramdeni meTil enis j gufiTaa gamoyofil i erTmaneTisgan ormagi bmebi I inol enmJavas mol ekul aSi?

1) 1; * 2) 2; 3) 3; 4) 4.

898. sn-nomenkl aturIT



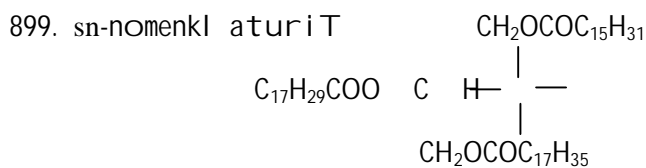
triacil gl icerol is saxel wodebaa:

1) 1-pal mitoil -2-ol einoil -3-stearoil -sn-gl icerol i;

2) 1-pal mitol einoil -2-ol eoil -3-stearoil -sn-gl icerol i; *

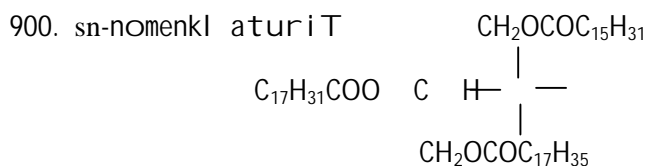
3) 1-pal mitoil -2-I inol oil -3-stearoil -sn-gl icerol i;

4) 1-pal mitoil -2-l inol enoil -3-stearoil -sn-gl icerol i.



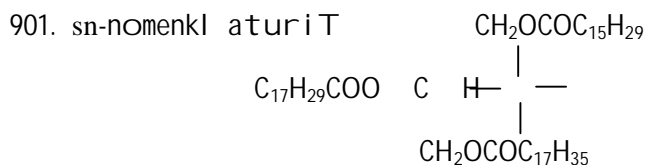
triacil gl icerol is saxel wodebaa:

- 1) 1-pal mitoil -2-ol einoil -3-stearoil -sn-gl icerol i;
- 2) 1-pal mitoil -2-l inol enoil stearini;
- 3) 1-pal mitoil -2-l inol oil -3-stearoil -sn-gl icerol i;
- 4) 1-pal mitoil -2-l inol enoil -3-stearoil -sn-gl icerol i. *



triacil gl icerol is saxel wodebaa:

- 1) 1-pal mitoil -2-ol einoil -3-stearoil -sn-gl icerol i;
- 2) 1-pal mitoil -2-l inol ostearini; *
- 3) 1-pal mitoil einoil -2-l inol oil -3-stearoil -sn-gl icerol i;
- 4) 1-pal mitoil -2-l inol enoil -3-stearoil -sn-gl icerol i.



triacil gl icerol is saxel wodebaa:

- 1) 1-pal mitoil -2-ol einoil -3-stearoil -sn-gl icerol i;
- 2) 1-pal mitoil einoil -2-l inol enoil stearini;
- 3) 1-pal mitoil einoil -2-l inol enoil -3-stearoil -sn-gl icerol i; *
- 4) 1-pal mitoil -2-l inol enoil -3-stearoil -sn-gl icerol i.

902. spermacetis Semadgenl obaSi Sedis:

- 1) $C_{15}H_{31}COOC_{31}H_{63}$; 2) $C_{15}H_{31}COOC_{16}H_{33}$; *
- 3) $C_{15}H_{31}COOC_{31}H_{61}$; 4) $C_{15}H_{31}COOC_{16}H_{31}$.

903. futkris cvil is Semadgenl obaSi Sedis:

- 1) $C_{15}H_{31}COOC_{31}H_{63}$; * 2) $C_{15}H_{31}COOC_{16}H_{33}$;
- 3) $C_{15}H_{31}COOC_{31}H_{61}$; 4) $C_{15}H_{31}COOC_{16}H_{31}$.

904. rogoria miricil is spirtis Sedgenil oba?

- 1) $C_{30}H_{61}OH$; 2) $C_{15}H_{31}OH$; 3) $C_{30}H_{61}CH_2OH$; * 4) $C_{15}H_{31}CH_2OH$.

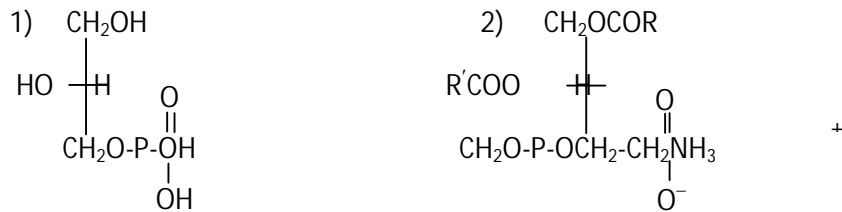
905. rogoria cetil is spirtis Sedgenil oba?

- 1) $C_{30}H_{61}OH$; 2) $C_{15}H_{31}OH$; 3) $C_{30}H_{61}CH_2OH$; 4) $C_{15}H_{31}CH_2OH$. *

906. romel i mJavis rTul i eTeria spermacetis erT-erTi ZiriTadi komponenti?

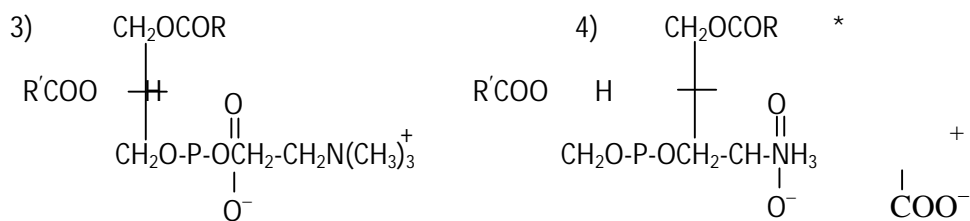
- 1) $C_{15}H_{29}COOH$; 2) $C_{15}H_{31}COOH$; * 3) $C_{17}H_{31}COOH$; 4) $C_{17}H_{35}COOH$.

907. romel i naerTis saxel wodebaa sworad miTiTebul i?



L-fosfatidmJava

L-fosfatidal eTanol aminebi

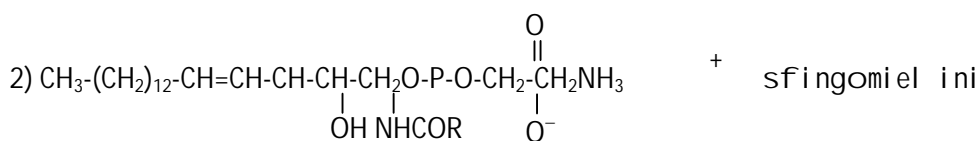


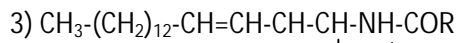
kefal inebi

fosfatidil serinebi

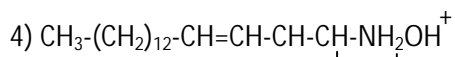
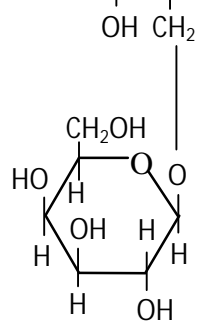
908. romel i naerTis saxel wodebaa sworad miTiTebul i?

- 1) $CH_3-(CH_2)_{12}-CH=CH-\underset{\substack{| \\ OH}}{CH}-\underset{\substack{| \\ NH_2}}{CH}-CH_2OH$ cerami di





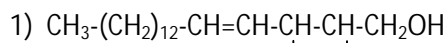
gal aqtocerebrozidi *



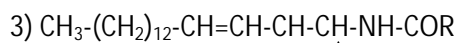
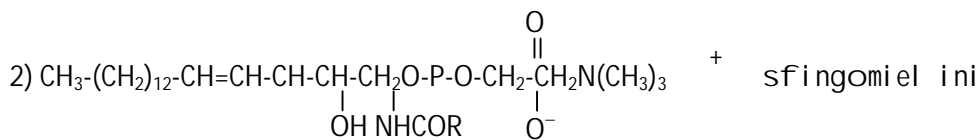
sfi ngozini



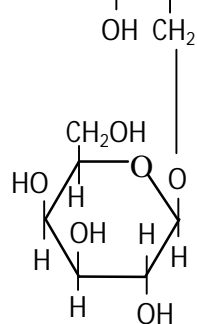
909. romel i naerTis saxel wodebaa arasworad miTiTebul i?



sfi ngozini



gal aqtocerebrozidi



+



4) $\text{CH}_3-(\text{CH}_2)_{12}-\text{CH}=\text{CH}-\text{CH}-\text{CH}-\text{NH}_2\text{OH}$ cerami di *

910. 1,2-diacil -sn-gl icerofosfoqol inebis saxel wodebaa:

1) kefal inebi; 2) l ecitinebi; * 3) pl azmal ogenebi; 4) fosfatidil serinebi.

911. 1,2-diacil -sn-gl icerofosfokol aminebis saxel wodebaa:

1) kefal inebi; * 2) l ecitinebi; 3) pl azmal ogenebi; 4) fosfatidil serinebi.

912. umaRI es cxovel Ta qsovil ebSi Semaval i fosfol ipidebidan romel i gv xvdeba yvel aze didi raodenobiT?

1) l ecitinebi; * 2) kefal inebi; 3) pl azmal ogenebi; 4) fosfatidil serinebi.

913. pl azmal ogenebis warmomadgenel ia:

1) L-fosfatidil eTanol aminebi; * 2) L-fosfatidil serinebi;

3) L-fosfatidil qol inebi; 4) triacil gl icerol ebi.

914. ramdeni grammi cximis hidrol izisas warmoqmnili cximovani mJavas ganeitral ebaze daxarjul i kal iumis tutis mil igranebis raodenobaa gasapvnis ricxvi?

1) 1; * 2) 10; 3) 100; 4) 1000.

915. ioduri ricxvi aris iodis gramebis raodenoba, romel ic uerTdeba:

1) 1 g cxims; 2) 10 g cxims; 3) 100 g cxims; * 4) 1000 g cxims.

916. ramdenatomiani aminospirtia sfingozini?

1) erTatomiani; 2) oratomiani; * 3) samatomiani; 4) oTxatomiani;

917. $(\text{C}_5\text{H}_8)_{2+n}$ formul aSi n-is mniSvnel oba monoterpenebisatvis tol ia:

1) 0; * 2) 1; 3) 2; 4) 3.

918. $(\text{C}_5\text{H}_8)_{2+n}$ formul aSi n-is mniSvnel oba seskvi terpenebisatvis tol ia:

1) 0; 2) 1; * 3) 2; 4) 3.

919. $(\text{C}_5\text{H}_8)_{2+n}$ formul aSi n-is mniSvnel oba sester terpenebisatvis tol ia:

1) 1; 2) 2; 3) 3; * 4) 4.

920. $(\text{C}_5\text{H}_8)_{2+n}$ formul aSi n-is mniSvnel oba triterpenebisatvis tol ia:

1) 1; 2) 2; 3) 3; 4) 4. *

921. $(\text{C}_5\text{H}_8)_{2+n}$ formul aSi n-is minimal uri mniSvnel oba pol iterpenebisatvis tol ia:

1) 6; 2) 8; * 3) 12; 4) 15.

922. terpenebSi erTmaneTTan dakavSirebul ia:

1) eTil enis naSTebi; 2) butadienis naSTebi;

3) izoprenis naSTebi; * 4) akril mJavas naSTebi;

923. CamoTvl il i terpenebidan romel ia al ifaturi?

1) menTol i; 2) l imoneni; 3) qafuri; 4) citral i. *

924. CamoTvl il i terpenebidan romel ia monocikl uri?

1) citral i. 2) l imoneni; * 3) qafuri; 4) α -pineni.

925. CamoTvl il i terpenebidan romel ia bicikl uri?

1) citral i; 2) l imoneni; 3) menTol i; 4) α -pineni. *

926. izoprenis dimerizaci iT mi iReba:

1) l imoneni; * 2) citral i; 3) menTol i; 4) qafuri.

927. l imonenis disproporci iT mi iReba:

1) menTani; 2) cimol i; * 3) terpini; 4) citral i.

928. moyvanil i naerTebidan romel ia oratomiani spirti?

1) l imoneni; 2) terpini; * 3) menTol i; 4) cimol i.

929. romel i naerTi Sedis val idol is Semadgenl obaSi?

1) l imoneni; 2) menTol i; * 3) citral i; 4) qafuri.

930. romel i naerTi ar Sedis menovazinis Semadgenl obaSi?

1) l imoneni; * 2) menTol i; 3) aneTezini; 4) novokaini.

931. pal adiumis Tanaobisas romel i naerTis hidrireb iT miiReba menTani?
 1) l imonenis; * 2) menTol is; 3) citral is; 4) qafuris.
932. cimol i warmo iqmneba pal adiumis Tanaobisas l imonenis:
 1) daJangvi T; 2) hidrireb iT; 3) ni tri reb iT; 4) disproporci iT. *
933. CamoTvl il i naerTebidan romel ia aromatul i?
 1) citral i; 2) cimol i; * 3) menTani; 4) l imoneni.
934. CamoTvl il i naerTebidan romel is mol ekul is Semadgenl obaSi gv xvdeba hidroqsil is j gufi?
 1) cimol i; 2) menTol i; * 3) l imoneni; 4) qafuri.
935. CamoTvl il i naerTebidan romel is mol ekul is Semadgenl obaSi gv xvdeba karbonil is j gufi?
 1) cimol i; 2) menTol i; 3) l imoneni; 4) qafuri. *
936. CamoTvl il i steroidebidan romel ia qol estanis nawarmi?
 1) hidrokortizoni; 2) testosteroni; 3) estroni; 4) ergosterol i. *
937. CamoTvl il i steroidebidan romel ia pregnanis nawarmi?
 1) hidrokortizoni; * 2) qol esterol i; 3) estroni; 4) ergosterol i.
938. CamoTvl il i steroidebidan romel ia pregnanis nawarmi?
 1) qol esterol i; 2) estroni; 3) androsteroni. 4) progesteroni. *
939. CamoTvl il i steroidebidan romel ia pregnanis nawarmi?
 1) qol esterol i; 2) estroni; 3) ergosterol i. 4) prednizol oni; *
940. CamoTvl il i steroidebidan romel ia androstanis nawarmi?
 1) qol esterol i; 2) estroni; 3) testosteroni; * 4) progesteroni.
941. CamoTvl il i naxSirwyal badebidan roml is nawarmia dezoqsikortikosteroni?
 1) qol ani; 2) pregnani; * 3) qol estani; 4) estrani.
942. CamoTvl il i naerTebidan romel i ar aris pregnanis nawarmi:
 1) hidrokortizoni; 2) androsteroni; * 3) prednizol oni; 4) progesteroni.
943. romel i steroidi reagirebs natriumis hidroqsidTan?
 1) qol esterol i; 2) ergosterol i; 3) progesteroni; 4) estriol i. *
944. romel i steroidi reagirebs natriumis hidroqsidTan?
 1) qol esterol i; 2) ergosterol i; 3) progesteroni; 4) estradiol i. *
945. romel i steroidi reagirebs natriumis hidroqsidTan?
 1) dezoqsikortikosteroni; 2) testosteroni;
 3) androsteroni; 4) estroni. *
946. romel i steroidi ar reagirebs natriumis hidroqsidTan?
 1) qol esterol i; * 2) estradiol i; 3) qol mJava; 4) estroni.
947. romel i steroidi ar reagirebs natriumTan?
 1) estroni; 2) testosteroni; 3) progesteroni; * 4) ergosterol i.
948. romel i steroidi ar reagirebs bromian wyal Tan?
 1) qol esterol i; 2) ergosterol i; 3) prednizol oni; 4) androsteroni. *
949. romel i steroidi ar reagirebs bromian wyal Tan?
 1) testosteroni; 2) qol mJava; * 3) hidrokortizoni; 4) estroni.
950. romel i steroidi ar auferul ebs kal iumis permanganatis xsnars?
 1) androsteroni; * 2) testosteroni; 3) hidrokortizoni; 4) prednizol oni.
951. romel i steroidi ar auferul ebs kal iumis permanganatis xsnars?
 1) ergosterol i; 2) qol mJava; * 3) progesteroni; 4) dezoqsikortikosteroni.
952. romel i ganmartebaa arasamarTl iani qol esterol isaTvis?
 1) reagirebs metal ur natriumTan; 2) reagirebs natriumis hidroqsidTan; *
 3) auferul ebs $KMnO_4$ -is xsnars; 4) reagirebs bromian wyal Tan.
953. romel i ganmartebaa arasamarTl iani qol esterol isaTvis?
 1) reagirebs metal ur natriumTan; 2) reagirebs hidroqsil aminTan; *
 3) auferul ebs $KMnO_4$ -is xsnars; 4) reagirebs bromian wyal Tan.

954. romel i ganmartebaa arasamarTI iani qol esterol isaTvis?
 1) reagirebs metal ur natriumTan; 2) reagirebs hidrazinTan; *
 3) auferul ebs $KMnO_4$ -is xsnars; 4) reagirebs bromian wyal Tan.
955. romel i ganmartebaa arasamarTI iani qol esterol isaTvis?
 1) reagirebs metal ur natriumTan; 2) reagirebs semikarbazi dTan; *
 3) auferul ebs $KMnO_4$ -is xsnars; 4) reagirebs bromian wyal Tan.
956. romel i ganmartebaa arasamarTI iani ergosterol isaTvis?
 1) reagirebs meTanol Tan; 2) reagirebs ZmarmJavasTan;
 3) reagirebs natriumis hidrosul fitTan; * 4) reagirebs natriumTan.
957. romel i ganmartebaa arasamarTI iani ergosterol isaTvis?
 1) reagirebs meTanol Tan; 2) reagirebs ZmarmJavasTan;
 3) reagirebs hidroqsil aminTan; * 4) reagirebs natriumTan.
958. romel i ganmartebaa arasamarTI iani ergosterol isaTvis?
 1) reagirebs tute l iTonebTan; 2) reagirebs hidrazinTan; *
 3) reagirebs bromian wyal Tan; 4) reagirebs eTanol Tan.
959. romel i ganmartebaa arasamarTI iani ergosterol isaTvis?
 1) reagirebs eTanol Tan; 2) reagirebs kal iumTan;
 3) reagirebs hidroqsil aminTan; * 4) reagirebs ql orwyal badTan.
960. romel i ganmartebaa arasamarTI iani qol mJavasaTvis?
 1) reagirebs meTanol Tan; 2) reagirebs metal ur Na-Tan;
 3) auferul ebs bromian wyal s; * 4) reagirebs natriumis hidroqsidTan.
961. romel i ganmartebaa arasamarTI iani qol mJavasaTvis?
 1) reagirebs meTanol Tan; 2) reagirebs metal ur Na-Tan;
 3) reagirebs hidroqsil aminTan; * 4) reagirebs natriumis hidroqsidTan.
962. romel i ganmartebaa arasamarTI iani qol mJavasaTvis?
 1) reagirebs meTanol Tan; 2) reagirebs metal ur Na-Tan;
 3) reagirebs hidrazinTan; * 4) reagirebs natriumis hidroqsidTan.
963. romel i ganmartebaa arasamarTI iani qol mJavasaTvis?
 1) reagirebs meTanol Tan; 2) reagirebs semikarbazi dTan; *
 3) reagirebs metal ur Na-Tan; 4) reagirebs natriumis hidroqsidTan.
964. romel i ganmartebaa arasamarTI iani qol mJavasaTvis?
 1) reagirebs meTanol Tan; 2) reagirebs metal ur Na-Tan;
 3) auferul ebs kal iumis permanganatis xsnars; *
 4) reagirebs natriumis hidroqsidTan.
965. romel i ganmartebaa arasamarTI iani gl ikoqol mJavasaTvis?
 1) reagirebs meTanol Tan; 2) reagirebs metal ur Na-Tan;
 3) auferul ebs kal iumis permanganatis xsnars; *
 4) reagirebs natriumis hidroqsidTan.
966. romel i ganmartebaa arasamarTI iani tauroqol mJavasaTvis?
 1) reagirebs meTanol Tan; 2) reagirebs metal ur Na-Tan;
 3) auferul ebs kal iumis permanganatis xsnars; *
 4) reagirebs natriumis hidroqsidTan.
967. romel i ganmartebaa arasamarTI iani gl ikoqol mJavasaTvis?
 1) reagirebs meTanol Tan; 2) reagirebs metal ur Na-Tan;
 3) auferul ebs bromian wyal s; * 4) reagirebs natriumis hidroqsidTan.
968. romel i ganmartebaa arasamarTI iani tauroqol mJavasaTvis?
 1) reagirebs meTanol Tan; 2) auferul ebs bromian wyal s; *
 3) reagirebs metal ur Na-Tan; 4) reagirebs natriumis hidroqsidTan.
969. romel i ganmartebaa arasamarTI iani estronistvis?
 1) reagirebs natriumis hidrosul fitTan; 2) reagirebs ZmarmJavasTan; *
 3) reagirebs hidroqsil aminTan; 4) reagirebs bromian wyal Tan.

970. romel i ganmartebaa arasamarTI iani estronistVis?
 1) reagirebs natriumis hidrosul fitTan; 2) reagirebs cianwyal badmJavasTan;
 3) reagirebs hidroqsil aminTan; 4) reagirebs maril mJavasTan. *
971. romel i steroidis struukturul i anal ogis eTers warmoadgens ZI ieri anabol uri aqtivobis mqone preparati retabol il i?
 1) androsteronis; 2) testosteronis; *
 3) progesteronis; 4) dezoqsikortikosteronis.
972. romel i ganmartebaa arasamarTI iani testosteronistVis?
 1) reagirebs eTanol Tan; 2) reagirebs cianwyal badmJavasTan;
 3) auferul ebs KMnO₄-is xsnars; 4) reagirebs kal iumis hidroqsidTan. *
973. romel i ganmartebaa arasamarTI iani androsteronistVis?
 1) reagirebs hidrazinTan; 2) reagirebs meTanol Tan;
 3) auferul ebs bromian wyal s; * 4) reagirebs ZmarmJavasTan.
974. romel i ganmartebaa arasamarTI iani androsteronistVis?
 1) reagirebs hidrazinTan; 2) reagirebs natriumis hidroqsidTan; *
 3) reagirebs eTanol Tan; 4) reagirebs ZmarmJavasTan.
975. romel i steroidi reagirebs hidroqsil aminTan?
 1) ergosterol i; 2) estradiol i; 3) glikoqol mJava; 4) testosteroni. *
976. romel i steroidi reagirebs hidroqsil aminTan?
 1) estroni; * 2) estradiol i; 3) qol mJava; 4) qol esteroni.
977. romel i steroidi reagirebs hidroqsil aminTan?
 1) ergosterol i; 2) estradiol i; 3) prednizol oni; * 4) qol mJava.
978. romel i steroidi reagirebs hidrazinTan?
 1) prednizol oni; * 2) qol mJava; 3) qol esterol i; 4) estriol i.
979. romel i steroidi reagirebs hidrazinTan?
 1) ergosterol i; 2) estradiol i; 3) qol mJava; 4) testosteroni. *
980. CamoTvl il i naerTebidan romel Tan reagirebs estroni?
 1) ql orwyal badmJava; 2) bromwyal badmJava;
 3) iodwyal badmJava; 4) cianwyal badmJava. *
981. CamoTvl il i naerTebidan romel Tan reagirebs prednizol oni?
 1) natriumis hidrosul fiti; * 2) natriumis hidrokarbonati;
 3) natriumis ql oridi; 4) natriumis karbonati.
982. romel i naxSirwyal badis nawarmebia kortikoidebi?
 1) qol estani; 2) estrani; 3) pregnani; * 4) qol ani.
983. romel i naxSirwyal badis nawarmebia naRvl is mJavebi?
 1) qol ani; * 2) estrani; 3) pregnani; 4) qol estani.
984. romel i naxSirwyal badis nawarmebia gestagenebi?
 1) qol ani; 2) estrani; 3) pregnani; * 4) qol estani.
985. romel i naxSirwyal badis nawarmebia qal is sasqeso hormonebi?
 1) qol ani; 2) estrani; * 3) androstani; 4) qol estani.
986. qol estanis nawarmebia:
 1) mamakacis sasqeso hormonebi; 2) sterol ebi; * 3) naRvl is mJavebi; 4) gestagenebi.
987. qol anis nawarmebia:
 1) mamakacis sasqeso hormonebi; 2) sterol ebi; 3) naRvl is mJavebi; * 4) gestagenebi.
988. estranis nawarmebia:
 1) mamakacis sasqeso hormonebi; 2) qal is sasqeso hormonebi; *
 3) naRvl is mJavebi; 4) kortikoidebi.
989. pregnanis nawarmebia:
 1) mamakacis sasqeso hormonebi; 2) sterol ebi;
 3) naRvl is mJavebi; 4) gestagenebi. *
990. pregnanis nawarmebia:

- 1) mamakacis sasqeso hormonebi; 2) sterol ebi;
 3) naRvl is mJavebi; 4) kortikoi debi. *

991. saerTaSoriso nomenkl aturIT romel i steroidis saxel wodebaa 11 β ,17 α ,21-trihi droqsi-1,4-pregnadien-3,20-dioni?

- 1) dezoqsikortikosteroni; 2) hidrokortizoni; 3) prednizol oni; * 4) progesteroni.

992. saerTaSoriso nomenkl aturIT romel i steroidis saxel wodebaa 11 β ,17 α ,21-trihi droqsi-4-pregnen-3,20-dioni?

- 1) dezoqsikortikosteroni; 2) hidrokortizoni; * 3) prednizol oni; 4) progesteroni.

993. saerTaSoriso nomenkl aturIT romel i steroidis saxel wodebaa 21-hi droqsi-4-pregnen-3,20-dioni?

- 1) dezoqsikortikosteroni; * 2) hidrokortizoni; 3) prednizol oni; 4) progesteroni.

994. saerTaSoriso nomenkl aturIT romel i steroidis saxel wodebaa 3-hi droqsi-estra-1,3,5(10)-trien-17-oni?

- 1) ergosterol i; 2) prednizol oni; 3) estroni; * 4) progesteroni.

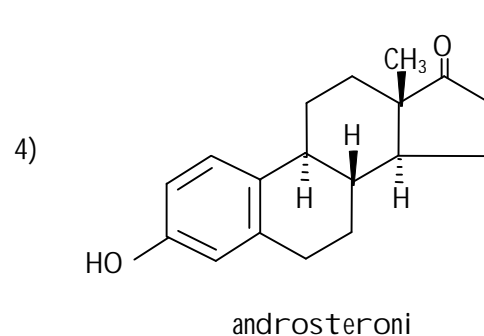
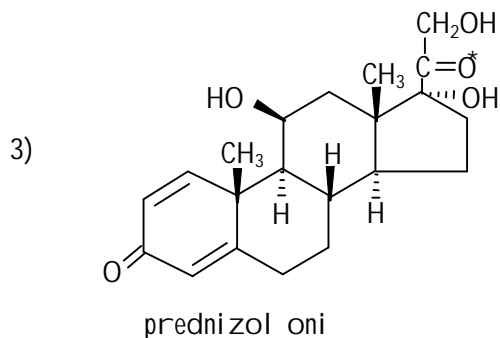
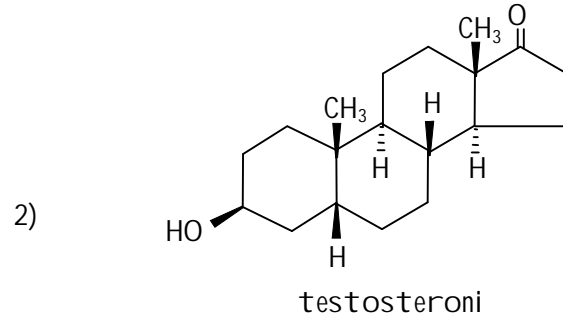
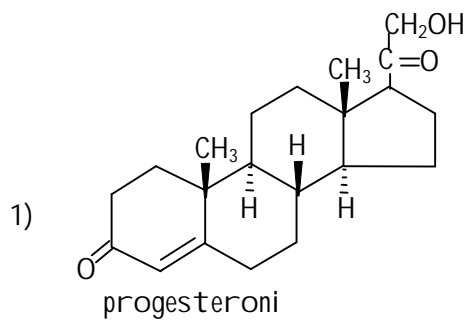
995. saerTaSoriso nomenkl aturIT romel i steroidis saxel wodebaa 24-meTil qol esta-5,7,22-trien-3 β -oli?

- 1) dezoqsikortikosteroni; 2) estriol i; 3) ergosterol i; * 4) progesteroni.

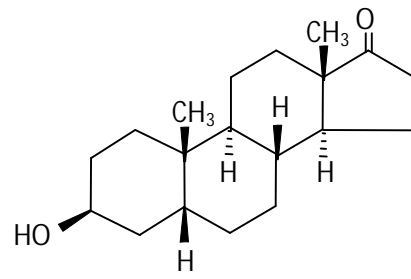
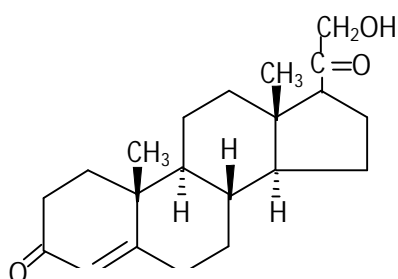
996. saerTaSoriso nomenkl aturIT romel i steroidis saxel wodebaa 17 β -hi droqsi-4-androsten-3-oni?

- 1) progesteroni; 2) prednizol oni; 3) androsteroni; 4) testosteroni. *

997. romel i naerTis saxel wodebaa sworad miTiTebul i?



998. romel i formul a Seesabameba hidrokortizonis aRnagobas?



1)

2)

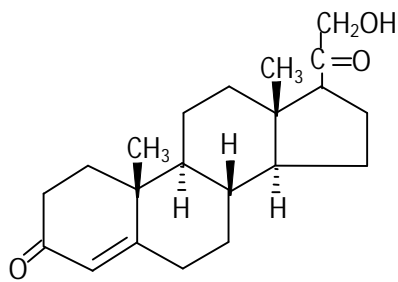
3)

4)

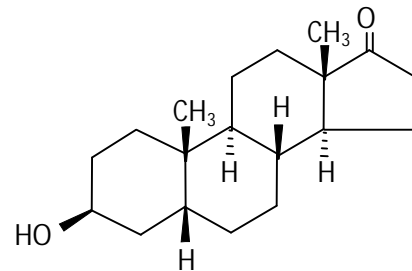
*

999. romel i formul a Seesabameba estronis aRnagobas?

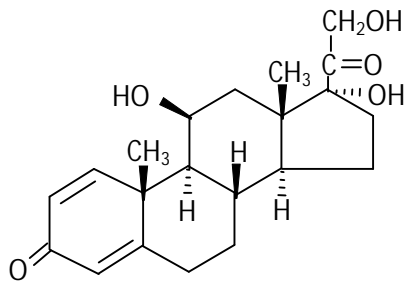
1)



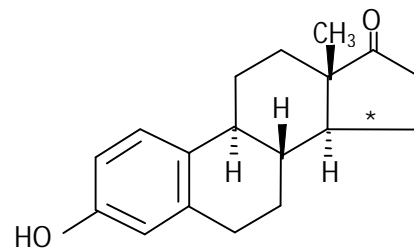
2)



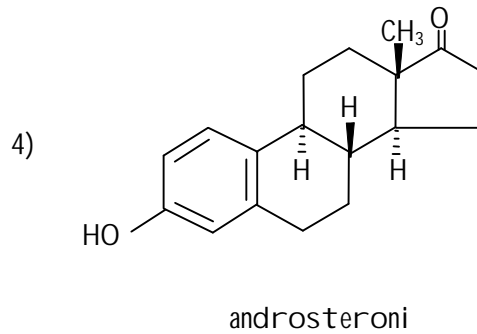
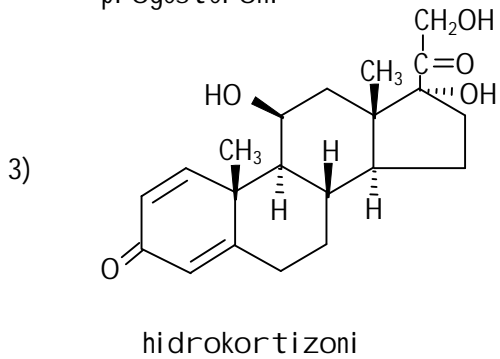
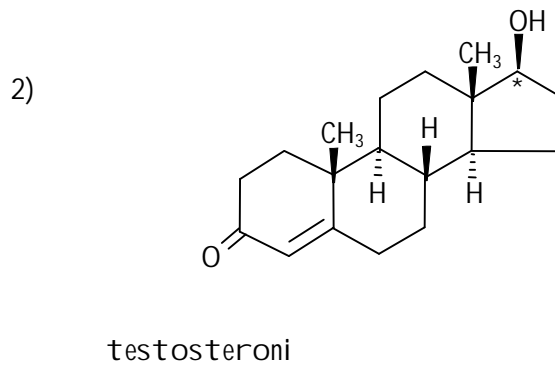
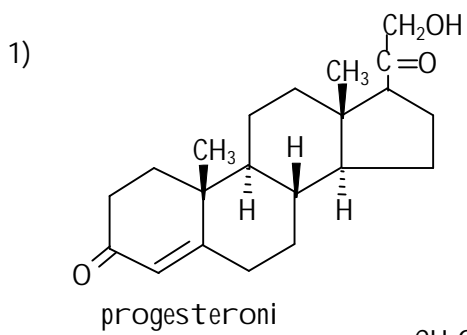
3)



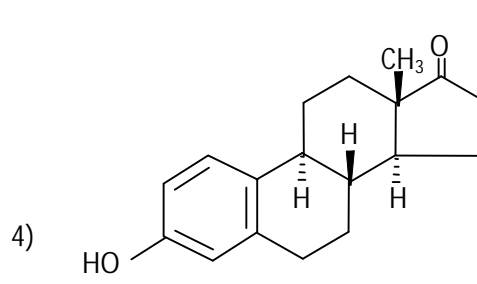
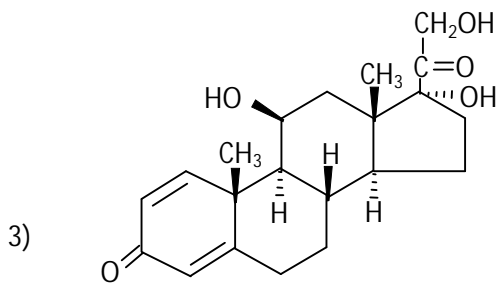
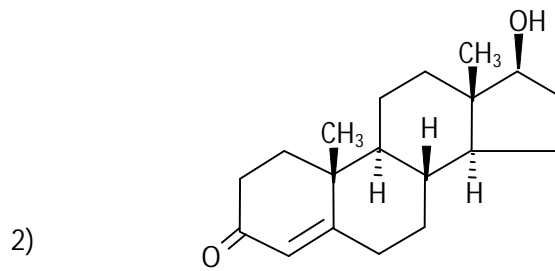
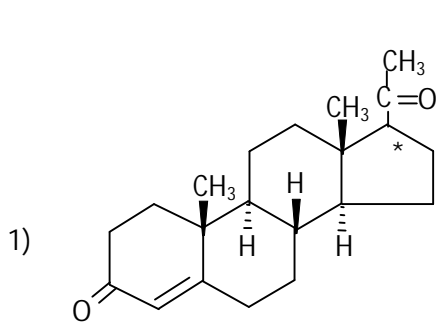
4)



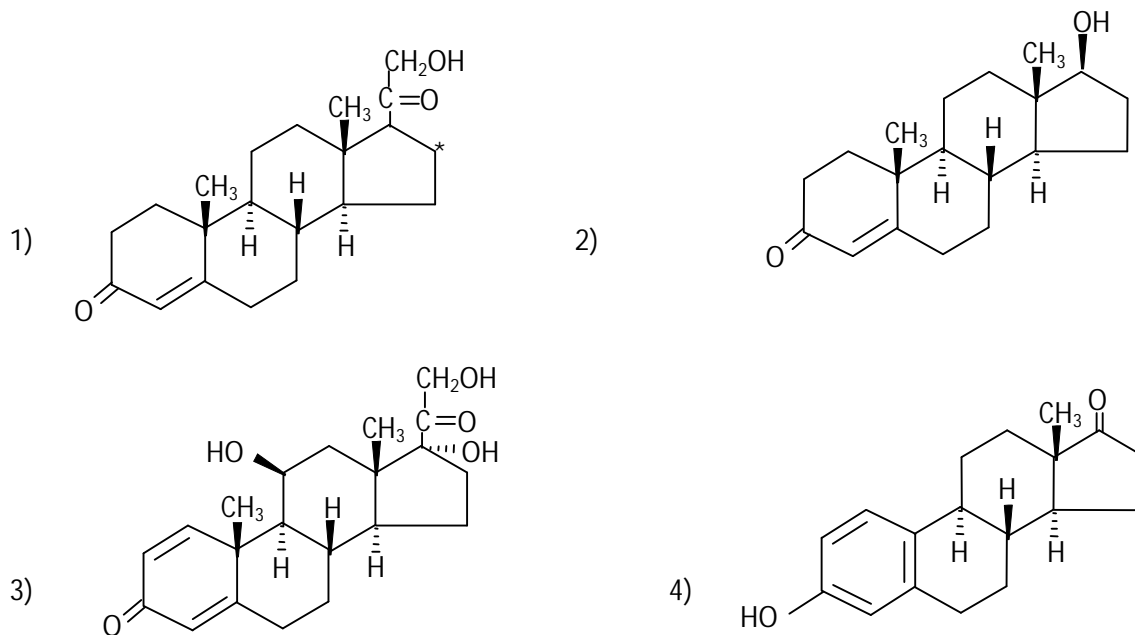
1000. romel i naerTis saxel wodebaa sworad mi TiTebul i?



1001. romel i formul a Seesabameba progesteronis aRnagobas?



1002. romel i formul a Seesabameba dezoqsi kortikosteronis aRnagobas?



1003. romel i formul a Seesabameba retabol il is aRnagobas?

