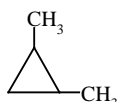
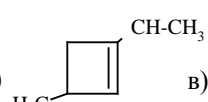
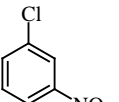
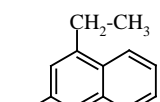
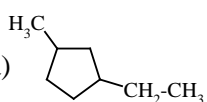
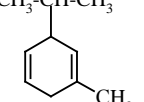
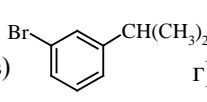
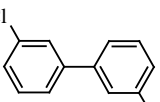
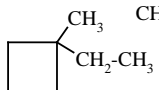
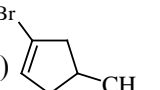
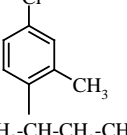
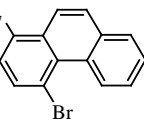
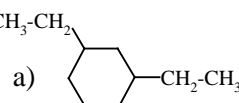
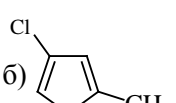
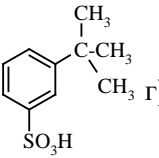
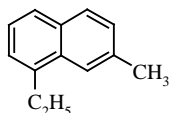
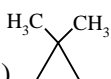
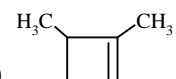
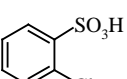
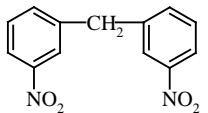
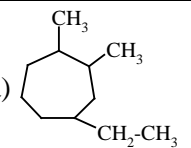
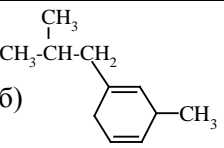
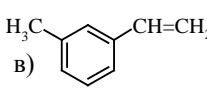
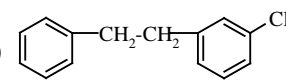
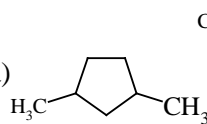
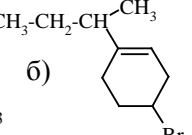
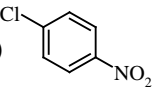
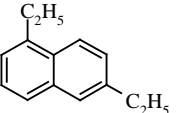
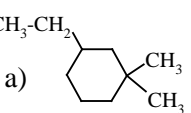
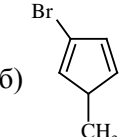
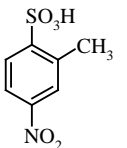
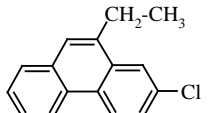
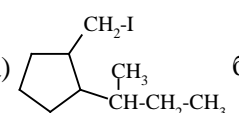
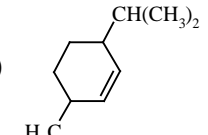
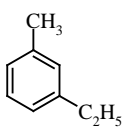
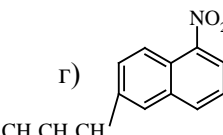
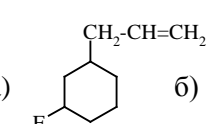
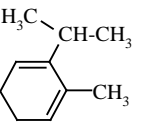
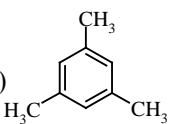
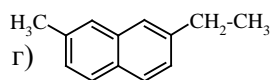
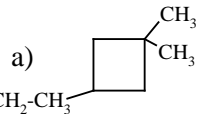
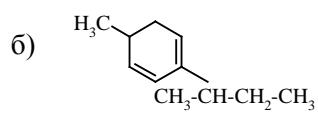
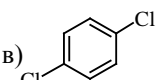
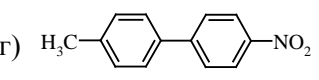
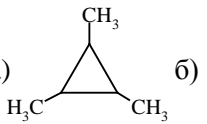
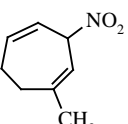
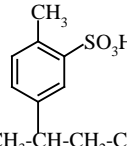
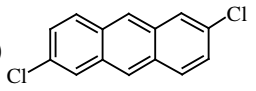
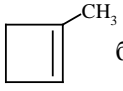
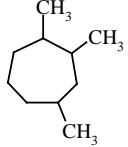
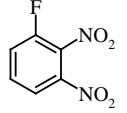
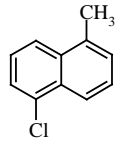
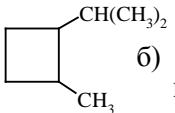
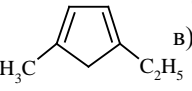
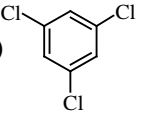
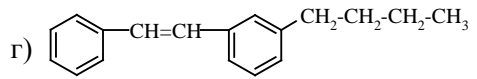
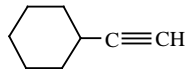
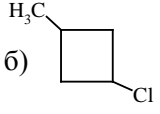
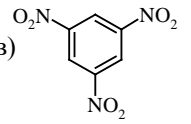
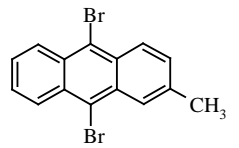


II. Назовите указанные соединения по систематической номенклатуре.

16.	a) 	б) 	в) 	г) 
17.	a) 	б) 	в) 	г) 
18.	a) 	б) 	в) 	г) 
19.	a) 	б) 	в) 	г) 
20.	a) 	б) 	в) 	г) 
21.	a) 	б) 	в) 	г) 
22.	a) 	б) 	в) 	г) 
23.	a) 	б) 	в) 	г) 
24.	a) 	б) 	в) 	г) 
25.	a) 	б) 	в) 	г) 
26.	a) 	б) 	в) 	г) 
27.	a) 	б) 	в) 	г) 

28.	а) 	б) 	в) 	г) 
29.	а) 	б) 	в) 	г) 
30.	а) 	б) 	в) 	г) 

**III. Напишите структурные формулы и назовите, если возможно по рациональной номенклатуре следующие соединения:**

31. 2,4-диметилгексан; 2,4,6-триметилдекатриен-1,3,5.
32. 2,8,9-триметилундекан; 5-изопропил-2-метилгептин-3.
33. 2,3,5-триметилгексан; 3-этилпентен-1-ин-4.
34. 2,5-димети-3-этилгексан; 4,5-дивинилнонадиен-1,8.
35. 2,2,4-триметилпентан; 4-втор-бутилоктен-2-ин-6.
36. 3,3,4,4-тетраметилгептан; 3,4-диэтилгексен-3.
37. 6-изопропил-2-метил-3-этилнонан; 3,3-диметилбутин-1.
38. 2,5-диметил-4-этилгептан; гексатриен-1,3,5.
39. 2,3,4,5,6-пентаметилгептан; 4-(1,2-диметилпропил)октен-1.
40. 3-изопропил-2,4-диметилпентан; бутен-1-ин-3.
41. 2,2,3-триметилгептан; 4-метилпентен-2.
42. 5-изобутил-4-трет-бутилнонан; 2,5-диметилгексин-3.
43. 3-метил-4-этилгептан; 3-винилнонантриен-1,4,6.
44. 2,4,4-триметилгексан; 2,7-диметилоктин-4.
45. 4-изопропил-3-метил-5-этилгептан; 3-метилпентен-1.
46. 2,2,3,3-тетраметилбутан; 2,2,-диметилгексин-3.
47. 5-(1-изопропил-2-метилпропил)-3-метилдекан; гексадиен-1,5-ин-3.
48. 2,5-диметил-4-пропилгептан; 2,3-диметилбутадиен-1,3.
49. 2,2,5,5-тетраметилгексан; 3-метилпентадиен-1,4.
50. 3,4-диметил-4-этилгептан; 4-метилпентин-1.

**IV. Напишите структурные формулы для следующих соединений:**

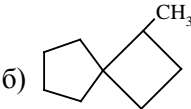
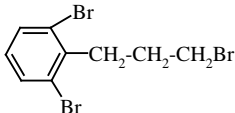
51. пара-дихлорбензол; 2-циклопентил-3,3-диметилпентан.
52. ди-пара-толилметан; 3-метилциклобутен.
53. α-метилнафталин; 5,5-диметилциклопентадиен-1,3.
54. дифенил; 1-винил-3-изопропилциклогексан.
55. пара-пропилтолуол; 1,2-диметил-3-циклопропилциклопропан.
56. 1,8-диметилнафталин; 1,2-диметил-4-изобутилциклопентан.
57. орто-хлортолуол; 2-метилциклогексадиен-1,3.
58. 2,2,4,4-тетраметил-3-фенилпентан; 1,1,3-триэтилциклобутан.
59. мета-нитротолуол; 1,2-дициклобутилэтан.
60. дифенилдихлорметан; 1,2,3,5-тетраметилциклопентен-1.
61. 9-метилфенантрен; 1,3-дитретбутилциклобутан.
62. 1,3,5-тринитробензол; 1-циклогексил-2-фенилэтан.
63. 1,3-димети-2-этилбензол; 1,2,3,4,5,6-гексахлорциклогексан.
64. 1,5-диметилнафталин; 1,2,3-триметилциклопропан.
65. пара-хлорвинилбензол; 1,3-диизопропилциклопентан.
66. 2,3-диметил-4-(2-толил)гексан; 4-этилциклогексен-1.
67. пара-диэтилбензол; 3-хлорциклопропен-1.
68. 1,3,5-три-трет-бутилбензол; 1,3-диметилциклобутадиен-1,3.

69. орто-хлорэтилбензол; 1,1-дибромциклопентан.

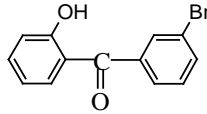
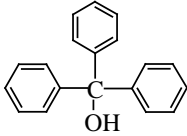
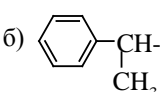
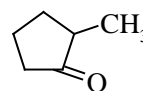
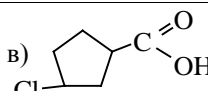
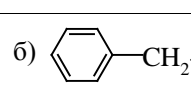
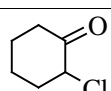
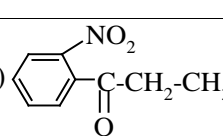
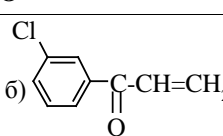
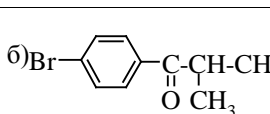
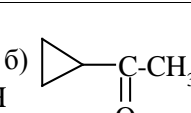
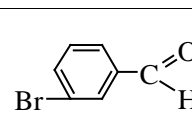
70. 1,3,5-триметилбензол; 1-циклогексил-3-циклопропилбутан.

**V. Назовите следующие соединения:**

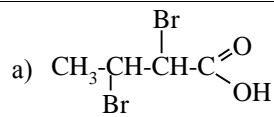
71.	a) $\text{CH}_3-\overset{\text{CH}_3}{\underset{\text{CH}_3}{\text{C}}}-\text{CH}_2-\text{OH}$	б)	в)
72.	a)	б)	в)
73.	a)	б)	в)
74.	a) $\text{CH}_2=\text{CH}-\overset{\text{CH}_2-\text{CH}_3}{\underset{\text{CH}_3}{\text{C}}}-\text{CH}_2-\text{OH}$	б)	в)
75.	a) $\text{CH}_3-\text{CH}_2-\overset{\text{OH}}{\text{CH}}-\overset{\text{CH}_3}{\text{CH}}-\text{CH}=\text{CH}_2$	б)	в)
76.	a) $\text{CH}_3-\overset{\text{CH}_2-\text{CH}=\text{CH}_2}{\underset{\text{CH}_3}{\text{C}}}-\text{CH}_2-\text{CH}_2-\text{OH}$	б)	в)
77.	a) $\text{CCl}_3-\text{CH}_2-\overset{\text{CCl}_3}{\text{CH}}-\text{CH}_2-\text{CCl}_3$	б)	в)
78.	a) $\text{HO}-\text{CH}_2-\text{CH}_2-\overset{\text{CH}_3}{\text{CH}}-\text{CH}_2-\overset{\text{CH}_2-\text{CH}_3}{\text{C}}=\text{CH}-\text{Br}$	б)	в)
79.	a) $\text{HO}-\text{CH}_2-\overset{\text{CH}_2-\text{CH}_3}{\text{C}}-\text{CH}_2-\text{OH}$	б)	в)
80.	a) $\text{CH}_2=\text{CH}-\overset{\text{CH}_3}{\underset{\text{OH}}{\text{CH}}}-\text{CH}_3$	б)	в) $\text{Cl}-\text{H}_2\text{C}-\overset{\text{Cl}}{\underset{\text{Cl}}{\text{C}}}-\overset{\text{Cl}}{\underset{\text{Cl}}{\text{C}}}-\text{CH}_2-\text{Cl}$
81.	a)	б)	в)
82.	a) $\text{CH}_3-\overset{\text{CH}=\text{CH}_2}{\underset{\text{CH}_3}{\text{C}}}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{OH}$	б)	в) $\text{Br}-\overset{\text{Cl}}{\text{CH}}-\overset{\text{Cl}}{\text{CH}}-\text{Br}$
83.	a)	б)	в)
84.	a) $\text{CH}_2=\overset{\text{Cl}}{\text{C}}-\text{CH}_2-\text{OH}$	б)	в) $\text{CH}_3-\overset{\text{CH}_3}{\text{CH}}-\text{C}_6\text{H}_4-\text{CHCl}_2$

85.	a) $\text{HC}\equiv\text{C}-\text{CH}_2-\underset{\text{CH}_2-\text{CH}=\text{CH}_2}{\text{CH}}-\text{CH}_2-\text{OH}$	б) 	в) 
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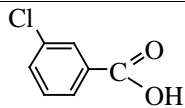
**VI. Назовите следующие кислородсодержащие соединения по систематической номенклатуре:**

86.	a) $\text{CH}_3-\underset{\text{Cl}}{\text{CH}}-\text{CH}=\text{CH}-\text{COOH}$	б) 	в) $\text{CH}_3-\underset{\text{CH}_3}{\overset{\text{CH}_3}{\text{C}}}-\text{CH}_2\text{OH}$	г) $\text{CH}_3-\underset{\text{Cl}}{\text{CH}}-\overset{\text{O}}{\text{C}}-\text{H}$
87.	a) $\text{CF}_3-\text{COOH}$	б) 	в) $\text{CH}_3-\overset{\text{O}}{\text{C}}-\text{C}_6\text{H}_4-\text{Cl}$	г) $\text{CH}_3-\text{CH}=\text{CH}-\overset{\text{O}}{\text{C}}-\text{H}$
88.	a) $\text{CH}_3-\underset{\text{CH}_3}{\text{CH}}-\text{CH}_2-\text{CH}_2-\text{COOH}$	б) 	в) $\text{CH}_3-\underset{\text{O}}{\text{C}}-\underset{\text{CH}_3}{\text{CH}}-\overset{\text{CH}_3}{\text{C}}-\text{CH}-\text{CH}_3$	г) $\text{CH}_2=\text{CH}-\text{CH}_2-\overset{\text{O}}{\text{C}}-\text{H}$
89.	a) $\text{CH}_3-\underset{\text{Cl}}{\text{CH}}-\underset{\text{Cl}}{\text{CH}}-\text{COOH}$	б) $\text{H}_3\text{C}-\text{C}_6\text{H}_4-\overset{\text{O}}{\text{C}}-\text{H}$	в) 	г) $\text{CH}_2=\text{CH}-\underset{\text{CH}_3}{\text{CH}}-\text{CH}_2\text{OH}$
90.	a) $\text{CH}_3-\underset{\text{CH}_3\text{OH}}{\text{CH}}-\underset{\text{CH}_3}{\text{CH}}-\text{CH}-\text{COOH}$	б) $\text{CH}_3\text{O}-\text{C}_6\text{H}_4-\overset{\text{O}}{\text{C}}-\text{H}$	в) $\text{CH}_2=\text{CH}-\overset{\text{O}}{\text{C}}-\text{CH}=\text{CH}_2$	г) $\text{CH}_3-\text{CH}_2-\underset{\text{OH}}{\text{CH}}-\underset{\text{CH}_3}{\text{CH}}-\text{CH}_2-\text{CH}_3$
91.	a) $\text{CH}_3-\underset{\text{CH}_3}{\overset{\text{CH}_3}{\text{C}}}-\text{CH}_2\text{OH}$	б) $\text{Cl}-\text{C}_6\text{H}_4-\overset{\text{O}}{\text{C}}-\text{H}$	в) 	г) $\text{CH}_3-\underset{\text{Br}}{\text{CH}}-\text{CH}_2-\overset{\text{O}}{\text{C}}-\text{CH}_2\text{Cl}$
92.	a) $\text{CH}_3-\text{CH}=\text{CH}-\overset{\text{O}}{\text{C}}-\text{H}$	б) 	в) $\text{O}_2\text{N}-\text{C}_6\text{H}_4-\text{CH}_2\text{OH}$	г) $(\text{CH}_3)_3\text{C}-\text{CH}_2-\overset{\text{O}}{\text{C}}-\text{OH}$
93.	a) $\text{CH}_3-\overset{\text{O}}{\text{C}}-\text{CH}_2-\overset{\text{O}}{\text{C}}-\text{OH}$	б) 	в) $\text{HO}-\text{CH}_2-\text{CH}_2-\text{Br}$	г) $\text{CH}_3-\text{CH}=\underset{\text{CH}_2-\text{CH}_2-\text{CH}_3}{\text{C}}-\overset{\text{O}}{\text{C}}-\text{H}$
94.	a) $\text{HO}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{OH}$	б) $\text{O}_2\text{N}-\text{C}_6\text{H}_4-\overset{\text{O}}{\text{C}}-\text{H}$	в) $\text{Cl}-\text{CH}_2-\overset{\text{O}}{\text{C}}-\text{CH}-\text{CH}_3$	г) $\text{CH}_3-(\text{CH}_2)_3-\text{CH}=\text{CH}-(\text{CH}_2)_4-\overset{\text{O}}{\text{C}}-\text{OH}$
95.	a) $\text{CH}_2=\text{CH}-\overset{\text{O}}{\text{C}}-\text{H}$	б) 	в) $\text{H}_3\text{C}-\text{C}_5\text{H}_9-\overset{\text{O}}{\text{C}}-\text{OH}$	г) $\text{CH}_3-\underset{\text{Br}}{\text{CH}}-\text{CH}=\underset{\text{OH}}{\text{CH}}-\text{CH}-\text{CH}_3$
96.	a) $(\text{CH}_3)_2\text{CH}-\text{CH}=\text{CH}-\text{CH}_2\text{OH}$	б) 	в) $(\text{CH}_3)_3\text{C}-\text{C}_5\text{H}_9-\overset{\text{O}}{\text{C}}-\text{H}$	г) $\text{CH}_3-\underset{\text{CH}_2-\text{CH}_3}{\overset{\text{CH}_3}{\text{C}}}-\text{CH}_2-\overset{\text{O}}{\text{C}}-\text{OH}$
97.	a) $\text{HO}-\overset{\text{O}}{\text{C}}-\underset{\text{CH}_2-\text{CH}_3}{\text{CH}}-\text{CH}_2-\overset{\text{O}}{\text{C}}-\text{OH}$	б) 	в) $\text{CH}_3-\underset{\text{CH}_3}{\overset{\text{CH}_3}{\text{C}}}-\text{CH}_2-\text{CH}_2-\text{OH}$	г) $\text{H}-\overset{\text{O}}{\text{C}}-\underset{\text{CH}_3}{\text{CH}}-\overset{\text{O}}{\text{C}}-\text{OH}$
98.	a) $\text{HO}-\overset{\text{O}}{\text{C}}-\text{CH}_2-\overset{\text{O}}{\text{C}}-\text{OH}$	б) 	в) $\text{H}_3\text{C}-\text{C}_5\text{H}_9-\text{OH}$	г) $\text{H}_3\text{C}-\text{C}_6\text{H}_{11}-\overset{\text{O}}{\text{C}}-\text{H}$
99.	a) $\text{CH}_3-\underset{\text{CH}_2-\text{CH}_3}{\text{C}}=\text{CH}-\overset{\text{O}}{\text{C}}-\text{OH}$	б) 	в) $\text{CH}_3-\underset{\text{CH}_3}{\overset{\text{CH}_3}{\text{C}}}-\text{CH}_2-\overset{\text{O}}{\text{C}}-\text{CH}_3$	г) $\text{CH}_2=\underset{\text{Cl}}{\text{C}}-\text{CH}_2-\text{OH}$

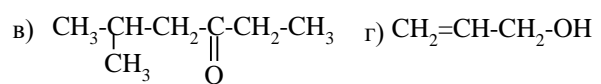
100.



б)



в)

г)  $\text{CH}_2=\text{CH}-\text{CH}_2-\text{OH}$