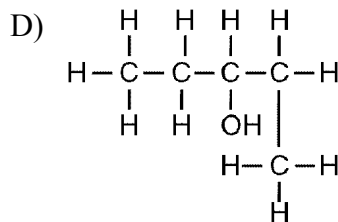
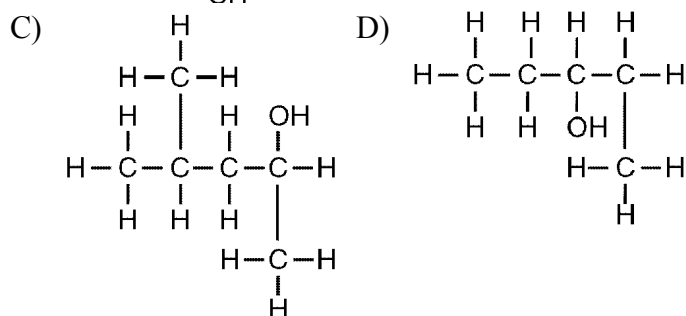
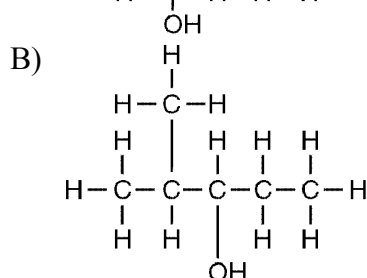
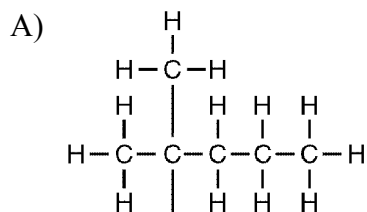
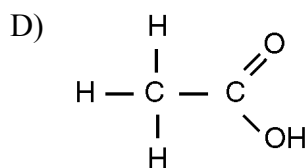
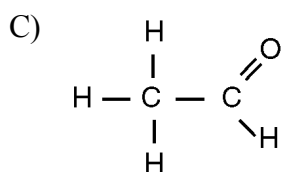
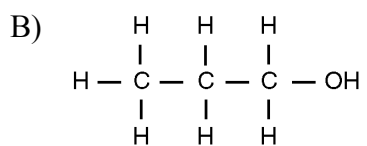
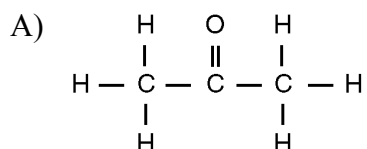


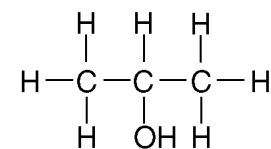
1. Which structural formula is correct for 2-methyl-3-pentanol?



2. Which structural formula represents an alcohol?



3. Which type of organic compound is represented by the structural formula shown below?

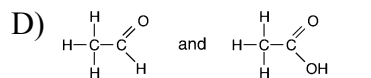
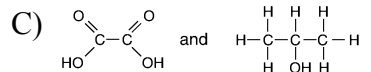
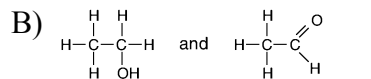
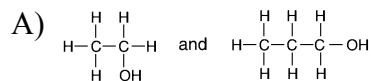


- A) aldehyde                      B) alcohol  
C) ether                            D) ester

4. Which compound is an alcohol?

- A) propanal                      B) ethyne  
C) butane                        D) methanol

5. Which pair of compounds are alcohols?



6. Which organic compound is most soluble in water?

- A) ethyne                        B) benzene  
C) butane                      D) ethanol

7. If a compound contains only one -OH functional group attached to the end carbon in the chain, it is classified as a

- A) primary alcohol            B) secondary alcohol  
C) tertiary alcohol            D) dihydroxy alcohol

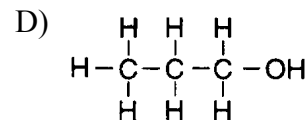
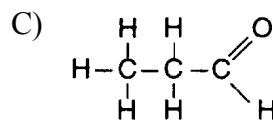
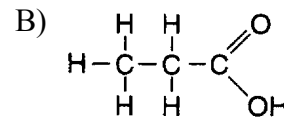
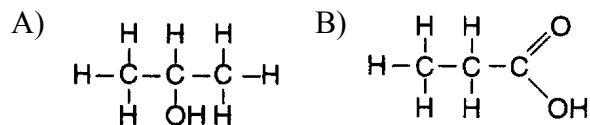
8. An example of a secondary alcohol is

- A) 1-propanol                  B) 2-propanol  
C) 1,2-propanediol            D) 1,2,3-propanetriol

9. A compound with the formula  $\text{CH}_3\text{CH}_2\text{OH}$  is classified as an

- A) alkane                        B) alkene  
C) alcohol                      D) acid

10. Which compound is a primary alcohol?



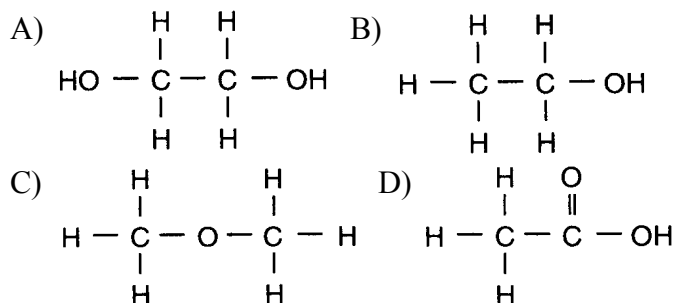
11. One molecule of glycerol contains a total of

- A) two -OH groups            B) two - $\text{CH}_3$  groups  
C) three -OH groups           D) three - $\text{CH}_3$  groups

12. An organic compound containing one or more OH groups as the only functional group is classified as an

- A) aldehyde                      B) alcohol  
C) ester                              D) ether

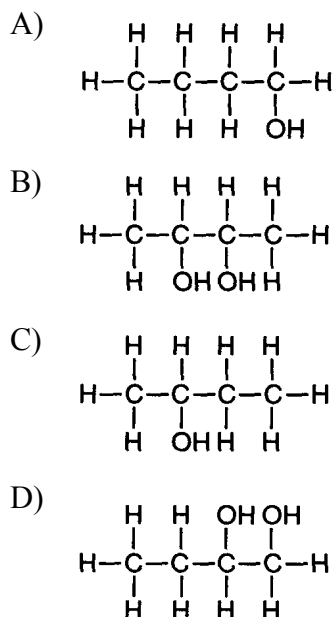
13. Which structural formula represents a monohydroxy alcohol?



14. The compound 1,2-ethanediol is a

- A) monohydroxy alcohol  
B) dihydroxy alcohol  
C) primary alcohol  
D) secondary alcohol

15. Which structural formula represents a primary alcohol?



16. The name of the compound having the formula  $\text{C}_3\text{H}_5(\text{OH})_3$  is

- A) glycerol                      B) ethylene glycol  
C) propene                        D) propanoic acid

17. A molecule of which alcohol contains more than one hydroxyl group?

- A) propanol                      B) butanol  
C) pentanol                      D) glycerol

18. The class of organic compounds to which  $\text{C}_3\text{H}_5(\text{OH})_3$  belongs is called

- A) bases                            B) acids  
C) alcohols                        D) hydrocarbons

19. The compound 2-propanol is classified as a

- A) primary alcohol              B) secondary alcohol  
C) tertiary alcohol               D) dihydroxy alcohol

20. What is the formula for pentanol?

- A)  $\text{C}_5\text{H}_{12}$                         B)  $\text{C}_5\text{H}_{11}\text{OH}$   
C)  $\text{C}_4\text{H}_{10}$                         D)  $\text{C}_4\text{H}_9\text{OH}$

21. Which two compounds are monohydroxy alcohols?

- A) ethylene glycol and ethanol  
B) ethylene glycol and glycerol  
C) methanol and ethanol  
D) methanol and glycerol

22. The formula  $\text{C}_5\text{H}_{11}\text{OH}$  represents an

- A) acid                              B) ester  
C) ether                              D) alcohol

23. How many hydroxy groups ( $-\text{OH}$ ) does a primary alcohol molecule contain?

- A) 1      B) 2      C) 3      D) 4

24. When the name of an alcohol is derived from the corresponding alkane, the final "-e" of the name of the alkane should be replaced by the suffix

- A) "-al"                            B) "-ol"  
C) "-ane"                         D) "-ase"

25. What could be the name of a compound that has the general formula  $\text{R}-\text{OH}$ ?

- A) methanol  
B) methane  
C) methanoic acid  
D) methyl methanoate

26. Which class of organic compounds can be represented as R-OH?

- A) acids                      B) alcohols  
C) esters                      D) ethers

27. Which formula represents an alcohol?

- A) CH<sub>3</sub>COOH                  B) CH<sub>3</sub>CHO  
C) Ca(OH)<sub>2</sub>                    D) CH<sub>3</sub>OH

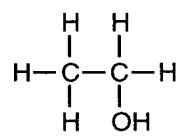
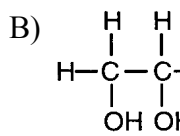
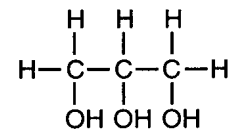
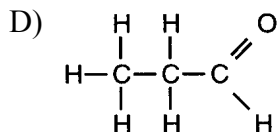
28. Molecules of 1-propanol and 2-propanol have different

- A) percentage compositions  
B) molecular masses  
C) molecular formulas  
D) structural formulas

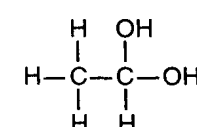
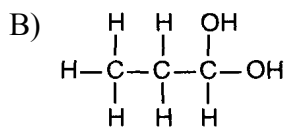
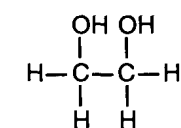
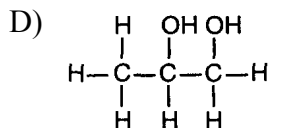
29. Which compound is a dihydroxy alcohol?

- A) Al(OH)<sub>2</sub>                      B) Al(OH)<sub>3</sub>  
C) C<sub>3</sub>H<sub>5</sub>(OH)<sub>3</sub>                  D) C<sub>2</sub>H<sub>4</sub>(OH)<sub>2</sub>

30. Which structural formula represents a dihydroxy alcohol?

- A)                   B)   
C)                   D) 

31. What is the structural formula for 1,2-ethanediol?

- A)                   B)   
C)                   D) 

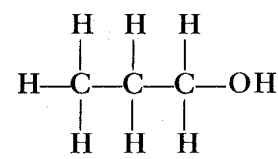
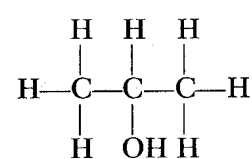
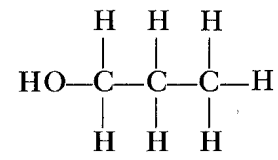
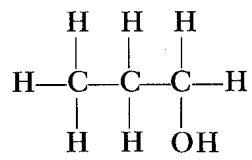
32. Which organic compound is classified as a primary alcohol?

- A) ethylene glycol              B) ethanol  
C) glycerol                      D) 2-butanol

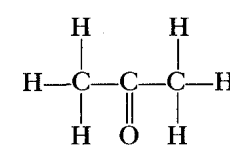
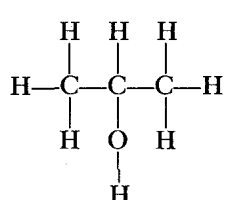
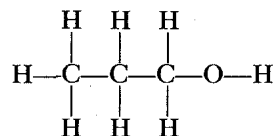
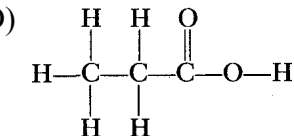
33. Which formula represents 1,2-ethanediol?

- A) C<sub>2</sub>H<sub>4</sub>(OH)<sub>2</sub>                  B) C<sub>3</sub>H<sub>5</sub>(OH)<sub>3</sub>  
C) Ca(OH)<sub>2</sub>                      D) Co(OH)<sub>3</sub>

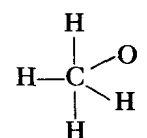
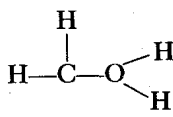
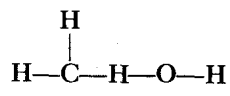
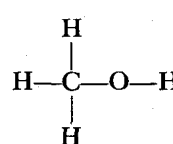
34. Which structural formula represents a secondary alcohol?

- A)                   B)   
C)                   D) 

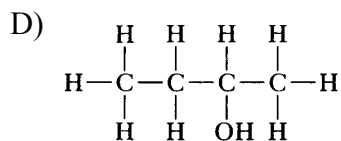
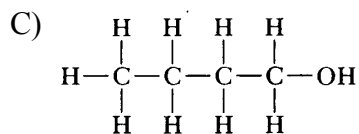
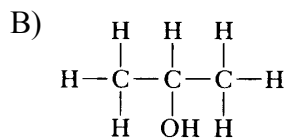
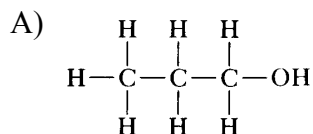
35. Which structural formula represents a primary alcohol?

- A)                   B)   
C)                   D) 

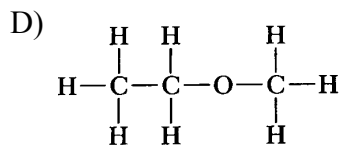
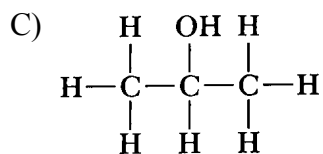
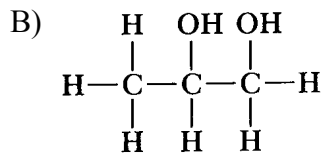
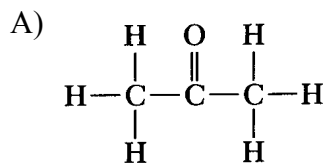
36. Which is the correct structural formula of a compound whose molecular formula is CH<sub>3</sub>OH?

- A)                   B)   
C)                   D) 

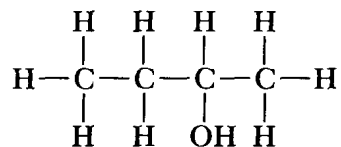
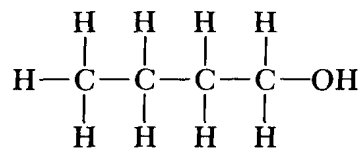
37. Which is the structural formula for 2-propanol?



38. Which structural formula represents a monohydroxy alcohol?



39. Which is an accurate description of the two compounds shown below?



- A) They are isotopes of butanol.
- B) They are isomers of butanol.
- C) They are alkanes.
- D) They are alkenes.

40. In a secondary alcohol, the carbon bonded to the -OH group must also be bonded to

- A) one carbon atom
- B) two carbon atoms
- C) three carbon atoms
- D) four carbon atoms