# CHAPTER 18

# ALCOHOL, PHENOLS AND ETHERS

**Q1. Write IUPAC name of the following compounds:**

(i) $CH_3-CH(CH_3)-CH_2-CH_2-OH$

(ii) $CH_3-CH(OH)-CH(CH_3)-CH_2-CH_3$

(iii) $CH_3-CH(CH_3)-CH(OH)-CH_2-CH_3$

(iv) $CH_3-CH(CH_3)-CH(CH_3)-CH_2-OH$

**Ans.** (i) 3-methylbutan-1-ol (ii) 3-methylpentan-2-ol (iii) 4-methylpentan-3-ol (iv) 2,3-dimethylbutan-1-ol

**Q2. Write structure of the following compounds:**

(i) 2-methoxy-2-methylpropane (ii) 1-phenoxypentane

(iii) 4-methylpentan-2-ol (iv) 1-ethoxy-2-methylpropane

**Ans.** (i) $CH_3-O-C(CH_3)_2-CH_3$

(ii) $C_6H_5-O-CH_2-CH_2-CH_2-CH_2-CH_3$

(iii) $CH_3-CH(OH)-CH_2-CH(CH_3)-CH_3$

(iv) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

**Q3. Write structure of the following compounds:**

(i) Propan-1,2,3-trioxy-tri-benzene (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i)

(ii)

(iii)

(iv)

**Q4. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii)

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv)

**Q5. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii)

(iii)

(iv)

**Q6. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii)

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv)

**Q7. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii)

(iii)

(iv)

**Q8. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii)

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv)

**Q9. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii)

(iii)

(iv)

**Q10. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii)

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv)

**Q11. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii)

(iii)

(iv)

**Q12. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii)

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv)

**Q13. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii)

(iii)

(iv) 

**Q14. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q15. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q16. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q17. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q18. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q19. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q20. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q21. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q22. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q23. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q24. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q25. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q26. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q27. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q28. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q29. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q30. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q31. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q32. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q33. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q34. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q35. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q36. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q37. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q38. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q39. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q40. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q41. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q42. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q43. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q44. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q45. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q46. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q47. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q48. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q49. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q50. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q51. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q52. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q53. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q54. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methylnonane (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-O-CH(CH_3)-CH_2-CH(CH_3)-CH_2-CH_3$

(ii) 

(iii) $CH_3-O-CH_2-CH_2-CH_2-CH_2-CH(CH_3)-CH_2-CH_2-CH_3$

(iv) 

**Q55. Write structure of the following compounds:**

(i) 1-ethoxy-2-methylpropane (ii) 1-methoxy-4-nitrobenzene

(iii) 1,2-dimethoxybenzene (iv) 1-methoxy-2-methylbenzene

**Ans.** (i) $CH_3-CH_2-O-CH_2-CH(CH_3)-CH_3$

(ii) 

(iii) 

(iv) 

**Q56. Write structure of the following compounds:**

(i) 2-methoxy-3-methylpentane (ii) 1-methoxy-4-nitrobenzene

(iii) 4-methoxy-7-methyl

# EXERCISE

**1. Name the light source that has colour given with each question**

**Which is known as the brilliant star through out the night?**

(a) Sun (b) Moon (c) Venus (d) Sirius

**Which celestial is called as natural satellite?**

(a) Moon (b) Sun (c) Venus (d) Sirius

**A constellation is a number of stars known as ...**

(a) Moon (b) Sun (c) Venus (d) Sirius

**Which is known as the star of the north?**

(a) Polar star (b) Sun (c) Venus (d) Sirius

**Which is known as the star of the south?**

(a) Polar star (b) Sun (c) Venus (d) Sirius

**2. What colour is seen with VIBGYOR the spectrum?**

(a) Red (b) Green (c) Violet (d) Yellow

**Which colour is not in the spectrum?**

(a) Red (b) Green (c) Violet (d) Yellow

**3. Which colour is not found in rainbow?**

(a) Red (b) Green (c) Violet (d) Yellow

**4. Which is the following component that is not present in air?**

(a) Oxygen (b) Nitrogen (c) Carbon dioxide (d) Water vapour

**5. Which is the following component that is not present in air?**

(a) Oxygen (b) Nitrogen (c) Carbon dioxide (d) Water vapour

**6. Which is the following component that is not present in air?**

(a) Oxygen (b) Nitrogen (c) Carbon dioxide (d) Water vapour

# Multiple Choice Questions

**1) Primary, Secondary and Tertiary Alcohol can be distinguished by Lucas test. The alcohol which takes 5-10 minutes to react with HCl in presence of ZnC12 is:**

a) Prim alcohol
b) Sec. Alcohol
c) Tertiary alcohol
d) None of these

**2) A mixture of $CH_3COOH$, Ethyl alcohol and $H_2SO_4$ on heating yields:**

a) Ethyl Acetate
b) Ether
c) Acetic anhydride
d) Ethene

**3) Ethanol on reaction with Conc. H2S04 at 180ºC yields:**

.ı) Ethane
b) Ethene
c) C+H,
d) Ethyne

**4) Isopropyl bromide on reaction with Na metal yields:**

a) Sodium propyl ide
b). propene
c) 2,3-dimethyl butane.
d) Butane

**5) Williamson's synthesis yields:**

a) An alcohol
b) An amine
c) An Ether
d) An Ester





**6) Methanol and Ethanol were heated with Conc.H2S04 at 140ºC in a single container made up of gena glass. The products are:**

a) Dimethyl Ether
b) Diethyl ether
c) Ether and Methane
d) A mixture of dimethyl ether, diethyl ether and methyl ethyl ether.

**7) The Formula of amino methanamide is:**

a) (NH2)2CO
b) NH4CONH2
c) NH2CH3
d) (NH2)4C

**8) The Formula of anesthetic ether is:**

a) (CH3)20
b) (C2H5)20
c) CH30C2H5
d) None of these

**9) Methanol on reaction with a mixture of K2Cr207 and H2S04 yields:**

a) Acetaldehyde
b) Propanol
c) Methane
d) Formaldehyde.

**10) Formaldehyde or reaction with a mixture of NaCN and HCl yields compound "A". When Compound "A" is hydrolyzed, obtained product is:**

a) Acetic acid
b) Hydroxy acetic acid
c) Formaldehyde
d) Cyanogen methanol

**11) Oxidation of isopropyl alcohol with a mixture of K2Cr207 and Conc.H2S04 yields:**





a) Acetaldehyde
b) Propyl aldehyde
c)Butanone
d) Propanone.

**12) HOOC – $CH_2$ - C (OH) (COOH) - $CH_2$ -COOH is the formula of:**

a) Tartaric acid
b) Citric acid
c)Maleic acid
d) Lactic acid

**13) When alcohols are protonated, the formed conjugated acid is called:**

a) An aldehyde ion
b) hydroxonium ion
c) An oxide ion
d) Hydronium ion

**14) Phenol on heating with a mixture of $HNO_3$ and $H_2SO_4$ at 35ºC yields:**

a) o — Nitro phenol
b) p — Nitro phenol
c) o and p — nitro phenols
d) o and p - dinitro phenols

**15) Ethyl bromide was shaken with magnesium in ether at 25ºC. Products were reacted with acetone followed by reaction with a mixture of HBr and water Final product is:**

a) 2 — methyl —2 — butanol
b) 3,3 — dimethyl propanol
c) 2 — ethyl — 2 — propanol
d) None of these is correct

**16) Which one of the following is also known as lactic acid?**

a) 3— Hydroxy propanoic acid
b) 2— hydro propanoic acid.
c) 2— hydroxy butanoic acid
d) 3—hydroxy butanoic acid





**17) The residue obtained after the crystallization of sugar from concentrated sugar cane juice is called?**

a) Mother liquor
b) Filtrate
c) Extract
d) Molasses.

**18) The oxidation of isopropyl alcohol will yield:**

a) Propane
b) Propanol
c) Propanone
d) Propanoic acid

**19) When phenol is heated with nitric acid strongly, the product is:**

a) Picric acid.
b) Nitrobenzene
c) 2,4,6-trinitro benzene
d) benzene

**20) Methyl alcohol is not used:**

a) As a solvent
b) As an anti-freezing agent
c) As a substitute for petrol
d) For denaturing of ethyl alcohol

**Answers**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1) | b) | 2) | a) | 3) | b) | 4) | c) | 5) | c) |
| 6) | d) | 7) | a) | 8) | b) | 9) | d) | 10) | b) |
| 11) | d) | 12) | b) | 13) | b) | 14) | c) | 15) | b) |
| 16) | b) | 17) | d) | 18) | c) | 19) | a) | 20) | c) |

# Short Questions and Answers.

**Q1. Why does the alcohol propanol-2 of smell?**

**Answer**

Alcohols are functional non-polarities compounds having covalent bonds and strong bonds. They also easily ionized in the presence of water. Alcohols can be hydrogen bonding which is significant in order alcohols but ratio and is higher than alkanes.

Bonding which is responsible for alcohols to smell is alkane.

**Q2. Why does the structure of alcohol?**

**Answer**

The structure of alcohols is similar to water and alkanes. Alcohols can act in place of water.

Alcohols are formed if it bonds are same but in the high electronegativity of the O atom.

**Q3. Why does the acidity of alcohols?**

**Answer**

Due to the bonding electronegativity of the O atoms alcohols are highly acidic.



The ionic dissociation by the electronegativity of an alcohol is the alkoxide. Alkoxides are dependent towards in organic chemistry.

Alcohols react with the sodium that is a gas the alkoxide.

**Q4. Why does the reaction of the 3 Alkyl alcohol?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.

**Q5. Why does the reaction of the 3 Alkyl alcohol?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.

**Q6. Why does the selection of dehydrate and halides?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.

Alcohols react with the sodium that is a gas the alkoxide.

**Q7. Why does the selection of the 3 Alkyl alcohol?**

**Answer**

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**Q8. Why does the selection of dehydrate and halides?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.

Alcohols react with the sodium that is a gas the alkoxide.

**Q9. Why does the selection of 3 Alkyl alcohol?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.

**Q10. Why does the selection of dehydrate and halides?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.

Alcohols react with the sodium that is a gas the alkoxide.

**Q11. Why does the selection of 3 Alkyl alcohol?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.

**Q12. Why does the selection of dehydrate and halides?**

**Answer**

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**Q13. Why does the selection of 3 Alkyl alcohol?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.

**Q14. Why does the selection of dehydrate and halides?**

**Answer**

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Alcohols react with the sodium that is a gas the alkoxide.

**Q15. Why does the selection of 3 Alkyl alcohol?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.

**Q16. Why does the selection of dehydrate and halides?**

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Alcohols react with the sodium that is a gas the alkoxide.

**Q17. Why does the selection of 3 Alkyl alcohol?**

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**Q18. Why does the selection of dehydrate and halides?**

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Alcohols react with the sodium that is a gas the alkoxide.

**Q19. Why does the selection of 3 Alkyl alcohol?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.

**Q20. Why does the selection of dehydrate and halides?**

**Answer**

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Alcohols react with the sodium that is a gas the alkoxide.







**Q21. Why does the alcohol propanol-2 of smell?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.



**Q22. Why does the structure of alcohol?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.

**Q23. Why does the acidity of alcohols?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.

Alcohols react with the sodium that is a gas the alkoxide.



**Q24. Why does the reaction of the 3 Alkyl alcohol?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.



**Q25. Why does the selection of dehydrate and halides?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.

Alcohols react with the sodium that is a gas the alkoxide.



**Q26. Why does the selection of 3 Alkyl alcohol?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.



**Q27. Why does the selection of dehydrate and halides?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.

Alcohols react with the sodium that is a gas the alkoxide.



**Q28. Why does the selection of 3 Alkyl alcohol?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.



**Q29. Why does the selection of dehydrate and halides?**

**Answer**

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Alcohols react with the sodium that is a gas the alkoxide.



**Q30. Why does the selection of 3 Alkyl alcohol?**

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**Q31. Why does the selection of dehydrate and halides?**

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**Q32. Why does the selection of 3 Alkyl alcohol?**

**Answer**

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**Q33. Why does the selection of dehydrate and halides?**

**Answer**

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**Q34. Why does the selection of 3 Alkyl alcohol?**

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Alcohols react with the sodium that is a gas the alkoxide.



**Q35. Why does the selection of dehydrate and halides?**

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**Q36. Why does the selection of 3 Alkyl alcohol?**

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**Q38. Why does the selection of 3 Alkyl alcohol?**

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**Q39. Why does the selection of dehydrate and halides?**

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**Q40. Why does the selection of 3 Alkyl alcohol?**

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**Q41. Why does the alcohol propanol-2 of smell?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.



**Q42. Why does the structure of alcohol?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.



**Q43. Why does the acidity of alcohols?**

**Answer**

Alcohols react with the sodium that is a gas the alkoxide.

Alcohols react with the sodium that is a gas the alkoxide.



**Q44. Why does the reaction of the 3 Alkyl alcohol?**

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Alcohols react with the sodium that is a gas the alkoxide.



**Q45. Why does the selection of dehydrate and halides?**

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Alcohols react with the sodium that is a gas the alkoxide.

Alcohols react with the sodium that is a gas the alkoxide.



**Q46. Why does the selection of 3 Alkyl alcohol?**

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**Q47. Why does the selection of dehydrate and halides?**

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**Q48. Why does the selection of 3 Alkyl alcohol?**

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**Q49. Why does the selection of dehydrate and halides?**

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**Q50. Why does the selection of 3 Alkyl alcohol?**

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**Q60. Why does the selection of 3 Alkyl alcohol?**

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**Q61. Why does the alcohol propanol-2 of smell?**

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**Q63. Why does the acidity of alcohols?**

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**Q64. Why does the reaction of the 3 Alkyl alcohol?**

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**Q65. Why does the selection of dehydrate and halides?**

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**Q100. Why does the selection of 3 Alkyl alcohol?**

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**Q101. Why does the alcohol propanol-2 of smell?**

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**Q102. Why does the structure of alcohol?**

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**Q118. Why does the selection of 3 Alkyl alcohol?**

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**Q119. Why does the selection of dehydrate and halides?**

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**Q120. Why does the selection of 3 Alkyl alcohol?**

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