



## QUESTION BANK

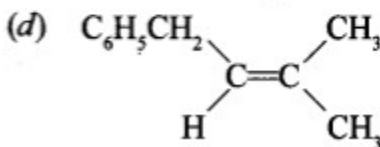
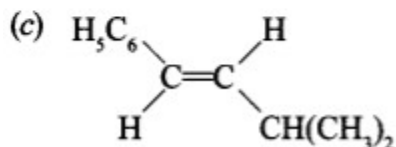
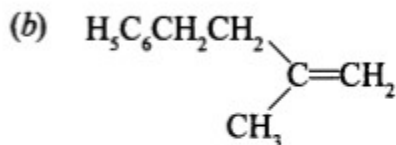
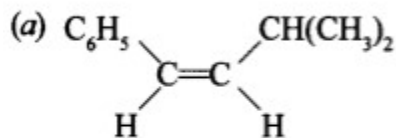
### CHAPTER – ALCOHOLS, PHENOLS AND ETHERS OBJECTIVE TYPE QUESTIONS

Multiple choice type questions

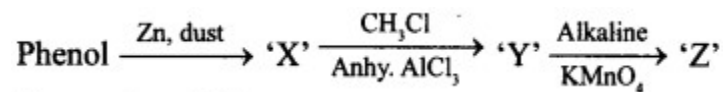
1. The heating of phenyl methyl ether with HI produces

- (a) Iodobenzene
- (b) Phenol
- (c) Benzene
- (d) Ethyl chloride

2.



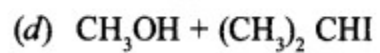
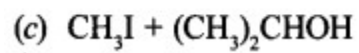
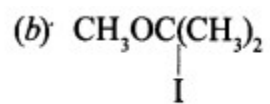
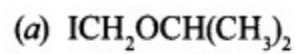
3.



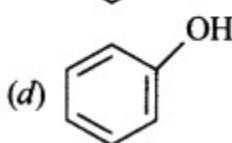
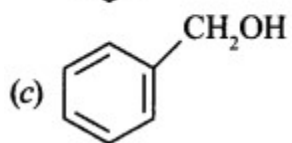
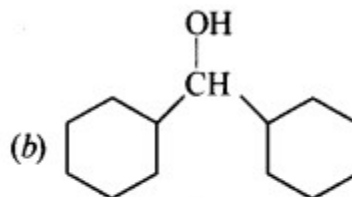
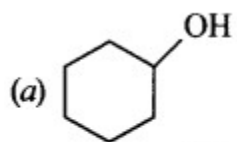
The product 'Z' is

- (a) Benzaldehyde
- (b) Benzoic acid
- (c) Benzene
- (d) Toluene

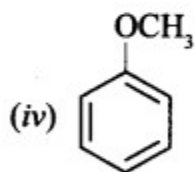
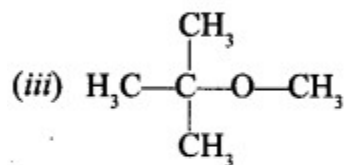
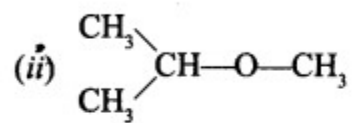
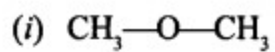
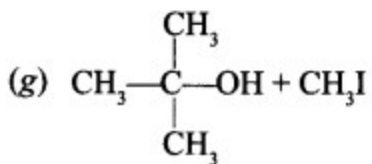
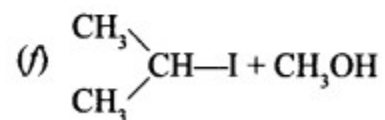
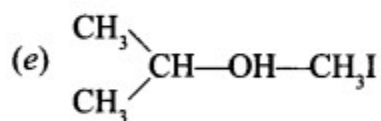
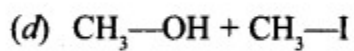
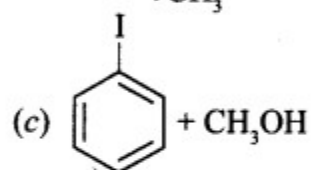
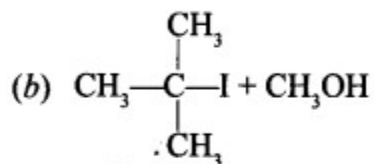
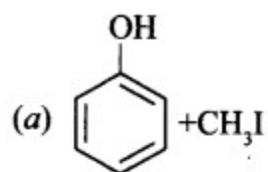
4.  $\text{CH}_3\text{—O—CH}(\text{CH}_3)_2 + \text{HI} \rightarrow$  Products is/are



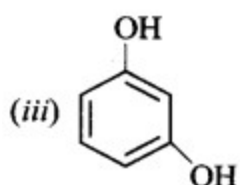
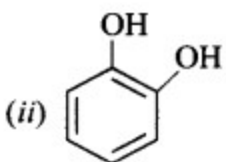
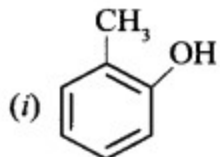
5. Which is most acidic?



6. Match the following:

**Column I****Column II**

8. Match the following:

**Column I****Column II**

(a) Hydroquinone

(b) Phenetole

(c) Catechol

9. Choose the correct answer out of the following choices.

- (a) Assertion and reason both are correct and reason is correct explanation of assertion.  
 (b) Assertion and reason both are wrong statements.  
 (c) Assertion is correct but reason is wrong statement.  
 (d) Assertion is wrong but reason is correct statement.  
 (e) Assertion and reason both are correct statements but reason is not correct explanation of assertion.

**10.** Assertion: Bond angle in ethers is slightly less than the tetrahedral angle.

Reason: There is a repulsion between the two bulky (—R) groups.

**11.** Assertion: p-Cresol is more acidic than phenol

Reason: Acidic strength depends on the stability of the conjugate base

**12.** Assertion: Phenetole reacts with HI to form phenol and ethyl iodide

Reason: Anisole readily undergoes electrophilic substitution

**13.** Assertion: Boiling points of ethers are much lower than the isomeric alcohols

Reason: Alcohols have strong intermolecular forces called hydrogen bonding.

**Fill in the blanks**

**14.** Phenol reacts with Br<sub>2</sub> in CS<sub>2</sub> to give \_\_\_\_\_ as major product.

**15.** Phenol gives o and p-nitrophenol with \_\_\_\_\_ **163.** o-nitrophenol has \_\_\_\_\_ melting point than /j-nitrophenol.

**State True or False**

**17.** Diethyl ether has dipole moment because they are bent molecule.

- 18.** Ethers have lower boiling point than alcohol
- 36.** Alcohols are lower boiling than ethers
- 19.** Williamson reaction cannot be used to prepare symmetrical ethers
- 9.