

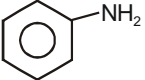


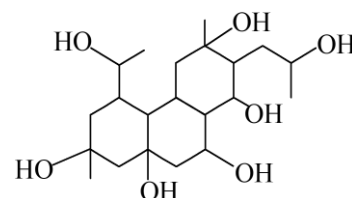
NSEC 11th 2026

ORGANIC CHEMISTRY

DPP-02

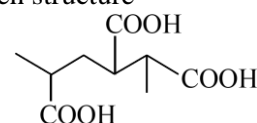
IUPAC Nomenclature

- The minimum number of carbon atoms in an alkane having four primary carbon atoms is:
 (A) 4 (B) 8
 (C) 5 (D) 6
- The number of primary, secondary, tertiary and quaternary carbon atoms in iso-octane is given by the set
 (A) 5, 0, 2, 1 (B) 5, 1, 0, 2
 (C) 5, 1, 1, 1 (D) 5, 2, 0, 1
- A primary amine has amino group ($-\text{NH}_2$) attached to:
 (A) A primary carbon atom only
 (B) A secondary carbon atom only
 (C) A tertiary carbon atom only
 (D) A primary, secondary or tertiary carbon atom
- The minimum number of carbon atoms in an alkyne having one quaternary carbon atom is
 (A) 5 (B) 6
 (C) 7 (D) 4
- In the compound $\text{HC}\equiv\text{C}-\text{CH}_2-\text{CH}=\text{CH}-\text{CH}_3$, total sigma bond and π -bonds respectively are:
 (A) 5, 3 (B) 13, 3
 (C) 13, 5 (D) None
- Which of following is 1° amine?
 (A)  (B) $\text{CH}_3-\text{C}(\text{CH}_3)_2-\text{NH}_2$
 (C) CH_3-NH_2 (D) All
- Number of 2° alcoholic group present in structure are ____.



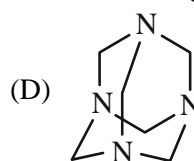
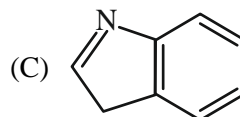
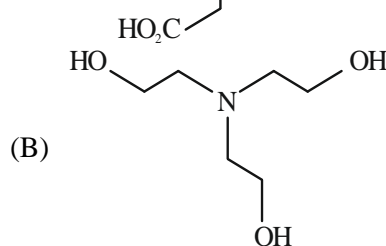
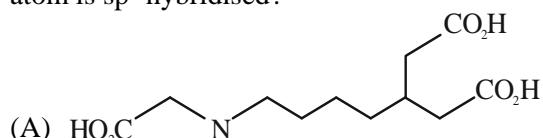
- (A) 3 (B) 2
 (C) 4 (D) 5

8. Find sum of 1° Hydrogen and 1° Alcoholic group in the given structure



- (A) 9 (B) 6
 (C) 5 (D) 4

9. In which of the following molecules nitrogen atom is sp^2 hybridised?



10. Which of following is 3° amine?

- (A) $\text{CH}_3-\text{N}(\text{CH}_3)_2$ (B) $\text{CH}_3-\text{NH}-\text{Et}$
 (C) $\text{CH}_3-\text{NH}-\text{CH}_3$ (D) CH_3-NH_2



Answer Key

- | | | | |
|----|-----|-----|-----|
| 1. | (C) | 6. | (D) |
| 2. | (C) | 7. | (C) |
| 3. | (D) | 8. | (B) |
| 4. | (B) | 9. | (C) |
| 5. | (B) | 10. | (A) |

