

**DPP-01**

- 1.** Which organic structure among the following is not an isomer of the compound



- (A) $\text{CH}_3\text{CH}_2\text{OCH} = \text{CHCH}_2\text{CH}_3$ (B) $\text{CH}_3\text{CH} = \text{CHCH}_2\text{CH}_2\text{CHO}$
 (C) $(\text{CH}_3)_2\text{CH} - \text{CO} - \text{CH}_2\text{CH}_3$ (D) $\text{CH}_3\text{CH}_2\text{COCH}_2\text{CH}_2\text{CH}_3$

- 2.** The least number of carbon atoms in alkane showing isomerism is

- (A) 3 (B) 1 (C) 2 (D) 4

- 3.** Isomers are the compounds having the

- (A) same molecular formula but different physical and/or chemical properties.
 (B) same structural formula but different molecular formulae
 (C) same chemical properties and physical properties
 (D) same physical properties but different chemical properties.

- 4.** Which pair below represents isomers?

- (A) $\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$ and $\text{HOCH}_2\text{CH}_2\text{CH}_2\text{CH}_3$
 (B) $\text{CH}_3\text{CH}_2\text{CH}_3$ and $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$
 (C) $\text{CH}_3\text{CH}(\text{Cl})\text{CH}_3$ and $\text{CH}_3\text{CH}_2\text{CH}_2\text{Cl}$
 (D) CH_3COCH_3 and $\text{CH}_3\text{CH}_2\text{CH}_2\text{CHO}$

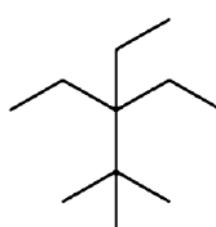
- 5.** Consider the following statements : A hydrocarbon of molecular formula C_5H_{10} is a

- I. monosubstituted alkene
 II. disubstituted alkene
 III. trisubstituted alkene

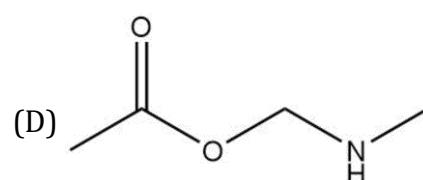
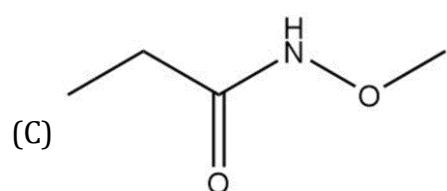
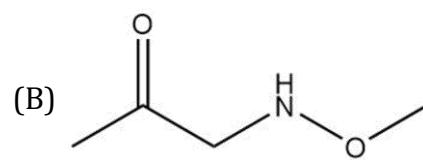
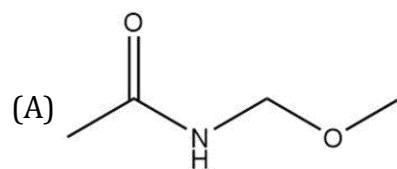
Which of the following statement(s) is(are) correct?

- (A) I, II and III (B) I and II (C) II and III (D) I and III

- 6.** What will be the molecular formula of the bond line structure?



7. Convert the following condensed structures into Bond-line structure.



8. Write bond line formulas for Heptan-4-one.

ANSWER KEY

1. (B) 2. (D) 3. (A) 4. (C) 5. (A) 6. ($C_{11}H_{24}$)

7. (A) 8.

