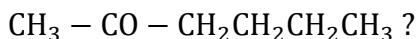


DPP-01

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 $\text{CH}_3\text{CH}_2\text{CH}_2\text{CHO}$

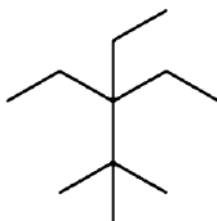
5. Consider the following statements : A hydrocarbon of molecular formula C_5H_{10} is a

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

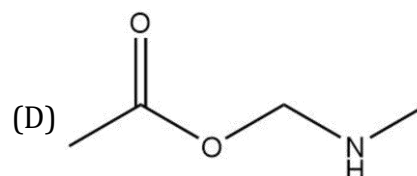
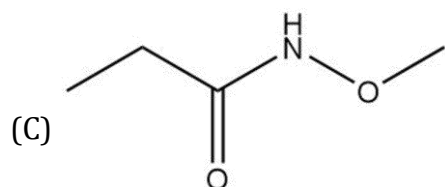
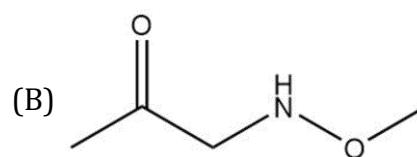
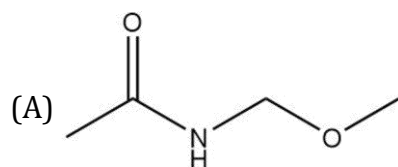
Which of the following statement(s) is(are) correct?

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

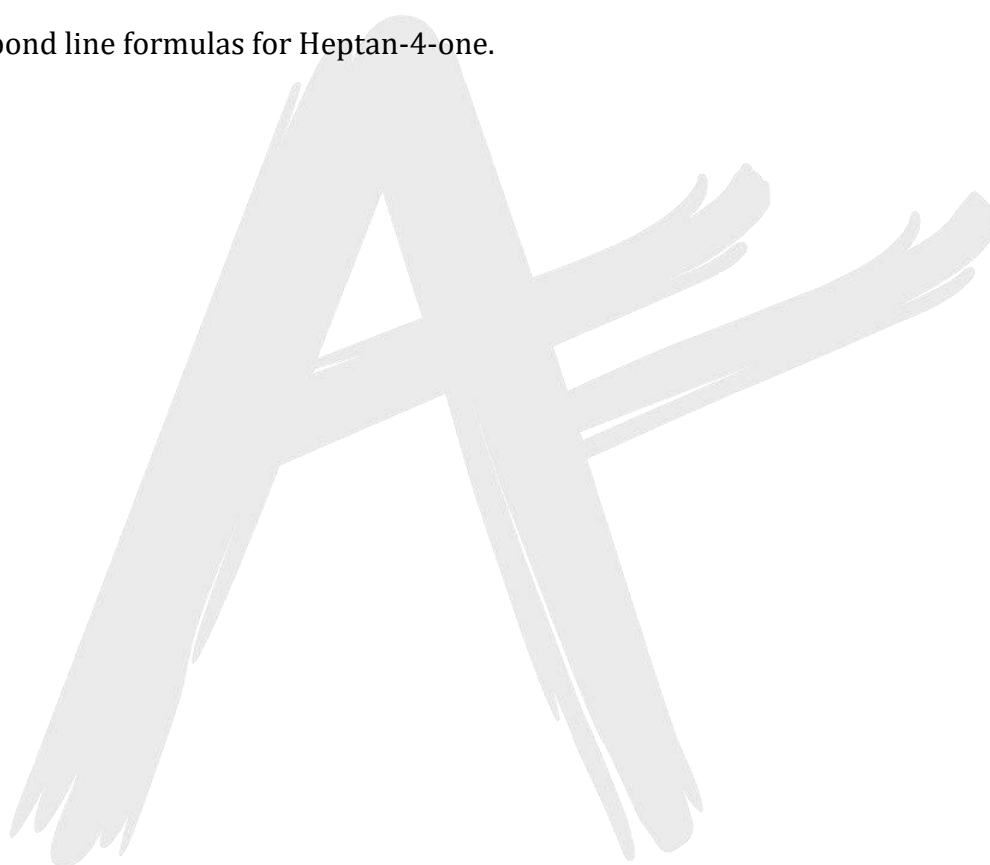
6. What will be the molecular formula of the bond line structure?



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



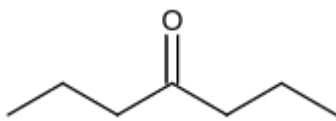
8. Write bond line formulas for Heptan-4-one.



ANSWER KEY

1. (B) 2. (D) 3. (A) 4. (C) 5. (A) 6. (C₁₁H₂₄)

7. (A) 8.



A