

Topic : IUPAC Nomenclature & Isomerism

Type of Questions

Single choice Objective ('-1' negative marking) Q.1 to Q.5

Multiple choice objective ('-1' negative marking) Q.6

Subjective Questions ('-1' negative marking) Q.7

Match the Following (no negative marking) Q. 8

(3 marks, 3 min.)

(4 marks, 4 min.)

(4 marks, 5 min.)

(8 marks, 10 min.)

M.M., Min.

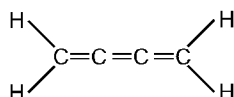
[15, 15]

[4, 4]

[4, 5]

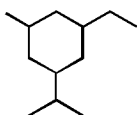
[8, 10]

1. Number of
- sp^2-sp
- sigma bonds in the given compound is :



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

2. How many tertiary carbon atom are present in the compound :

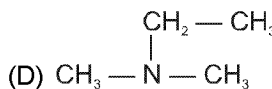
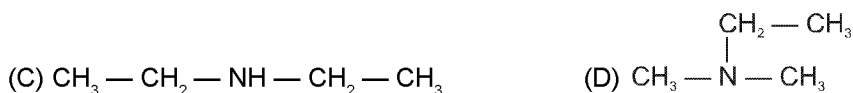
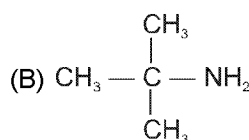
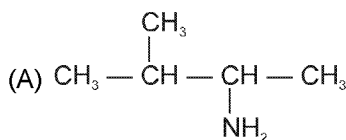


- (A) 2 (B) 3 (C) 4 (D) 5

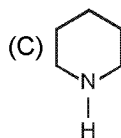
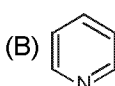
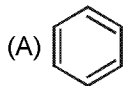
3. Which statement is incorrect :

(A) $C_n H_{2n-2}$ is the general formula of alkyne(B) $C_n H_{2n+2} O$ is the general formula of alkanol(C) $C_n H_{2n}$ is the general formula of alkene(D) $C_n H_{2n+2}$ is the general formula of cycloalkane

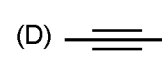
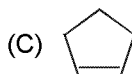
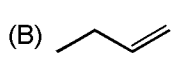
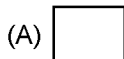
4. Which of the following is 3°-Amine :



5. Which of the following is heteroaromatic compound :



- 6.* Which of the following has
- $C_n H_{2n}$
- general formula :



7. Calculate molecular weight of the lowest alkane containing a sequence of 1°, 2°, 3° and 4° carbon atoms.

8. Match the following :

Column I	Column II
(A) 4 carbon atoms alkane	(P) Molecular weight = 26
(B) 2 carbon atoms alkyne	(Q) Molecular weight = 42
(C) 3 carbon atoms alkene	(R) Molecular weight = 40
(D) 3 carbon atoms alkyne	(S) Molecular weight = 58

Answer Key

DPP No. # 2

- | | | | | | | | | | |
|----|-------|----|------|----|--|----|-----|----|-----|
| 1. | (B) | 2. | (C) | 3. | (D) | 4. | (D) | 5. | (B) |
| 6. | (A,B) | 7. | 114. | 8. | $A \rightarrow S, B \rightarrow P, C \rightarrow Q, D \rightarrow R$ | | | | |

Hints & Solutions

DPP No. # 2

8. (A) $\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{CH}_3$
M.F. $= \text{C}_4\text{H}_{10} = 48 + 10 = 58$
(B) $\text{HC} \equiv \text{CH}$
M.F. $\text{C}_2\text{H}_2 = 24 + 2 = 26$
(C) $\text{CH}_3-\text{CH}=\text{CH}_2$
M.F. $\text{C}_3\text{H}_6 = 36 + 6 = 42$
(D) $\text{CH}_3-\text{C} \equiv \text{CH}$
M.F. $\text{C}_3\text{H}_4 = 36 + 4 = 40$