ORGANIC CHEMISTRY

DPP

DAILY PRACTICE PROBLEMS

DPP No. 2

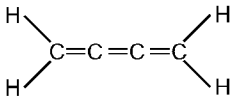
Total Marks : 31

Max. Time : 34 min.

Topic : IUPAC Nomenclature & Isomerism

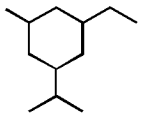
Type of Questions		M.M., Min.
Single choice Objective ('–1' negative marking) Q.1 to Q.5	(3 marks, 3 min.)	[15, 15]
Multiple choice objective ('–1' negative marking) Q.6	(4 marks, 4 min.)	[4, 4]
Subjective Questions ('–1' negative marking) Q.7	(4 marks, 5 min.)	[4, 5]
Match the Following (no negative marking) Q. 8	(8 marks, 10 min.)	[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 :



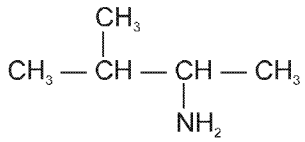
(A) 2 (B) 3 (C) 4 (D) 5

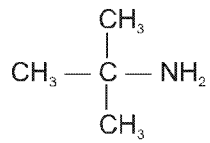
3. Which statement is incorrect :

(A) C_nH_{2n-2} is the general formula of alkyne (B) $C_nH_{2n+2}O$ is the general formula of alkanol

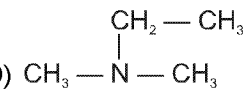
(C) C_nH_{2n} is the general formula of alkene (D) C_nH_{2n+2} is the general formula of cycloalkane

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

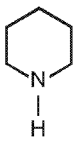
(A) 

(B) 

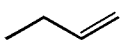
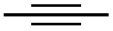
(C) $CH_3 - CH_2 - NH - CH_2 - CH_3$

(D) 

5. Which of the following is heteroaromatic compound :

(A)  (B)  (C)  (D) 

6.* Which of the following has C_nH_{2n} general formula :

(A)  (B)  (C)  (D) 

7. Calculate molecular weight of the lowest alkane containing a sequence of 1^0, 2^0, 3^0 and 4^0 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

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1.	(B)	**2.**	(C)	**3.**	(D)	**4.**	(D)	**5.**	(B)
6.	(A,B)	**7.**	114.	**8.**	A → S, B → P, C → Q, D → R				

Hints & Solutions

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8. (A) $CH_3–CH_2–CH_2–CH_3$
M.F = C_4H_{10} = 48 + 10 = 58
(B) HC ° CH
M.F. ® C_2H_2 = 24 +2 = 26
(C) $CH_3–CH = CH_2$
M.F. ® C_3H_6 = 36 +6 = 42
(D) CH_3 –C ° CH
M.F. ® C_3H_4 = 36 +4 = 40