

Topic : IUPAC Nomenclature & Isomerism, Structural Isomerism
Type of Questions

Single choice Objective ('-1' negative marking) Q.1 to Q.4

Multiple choice objective ('-1' negative marking) Q.5 to 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.)

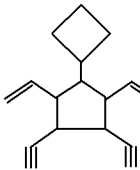
M.M., Min.

[12, 12]

[8, 8]

[4, 5]

[8, 10]

1. Degree of unsaturation in  is :

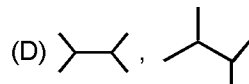
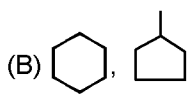
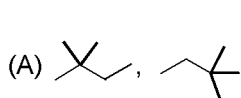
(A) 6

(B) 8

(C) 7

(D) 10

2. Which of the following pair is the chain isomer ?

3. Molecular formula C_4H_8 which type of isomerism will not show :

(A) Chain

(B) Metamerism

(C) Position

(D) Geometrical

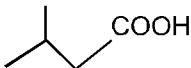
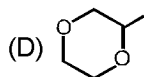
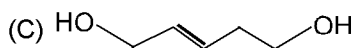
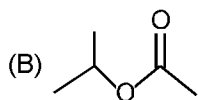
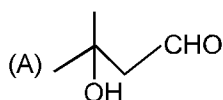
4. Minimum carbon atoms are required to ketone to show position isomerism :

(A) 3

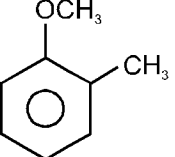
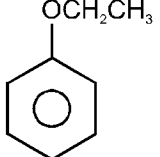
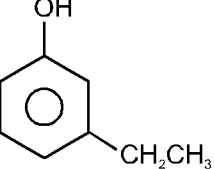
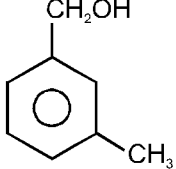
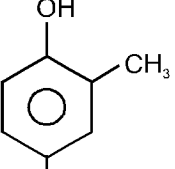
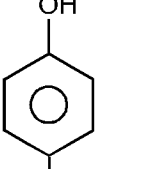
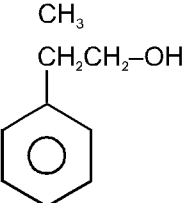
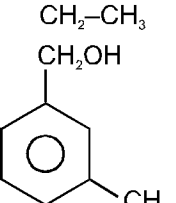
(B) 4

(C) 5

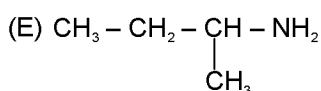
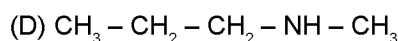
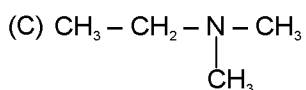
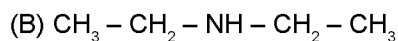
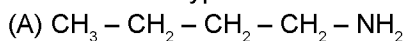
(D) 6

5.*  have functional isomer relation with

6.* Which is/are correctly matched.

- | | | | | |
|-----|---|---|---|--------------------------|
| (A) |  | , |  | Metamers |
| (B) |  | , |  | Functional group isomers |
| (C) |  | , |  | Chain isomers |
| (D) |  | , |  | Positional isomers |

7. Fill the correct type of isomerism



(i) A & B are _____

(ii) B & C are _____

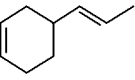
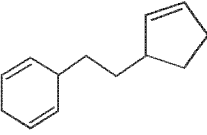
(iii) A & C are _____

(iv) B & D are _____

(v) A & E are _____

(vi) C & E are _____

8. Match the following:

- | Column I
Compound | Column II
Degree of unsaturation |
|--|-------------------------------------|
| (A)  | (p) 2 |
| (B) $\text{H}_3\text{C} - \underset{\text{CH}_3}{\text{CH}} - \text{CH}_2 - \text{C} = \text{CH}_3$
 | (q) 5 |
| (C)  | (r) 4 |
| (D)  | (s) 3 |



Answer Key

DPP No. # 6

- | | | | | | | | |
|----|--------|----|-------|----|---|----|-----|
| 1. | (B) | 2. | (B) | 3. | (B) | 4. | (C) |
| 5. | (ABCD) | 6. | (ABC) | 8. | (A $\rightarrow$ s) ; (B $\rightarrow$ r) ; (C $\rightarrow$ q) ; (D $\rightarrow$ p) | | |

Hints & Solutions

DPP No. # 6

- | | | | |
|----|---------------------------------------|---|---|
| 7. | (i) Functional isomer
(iv) Metamer | (ii) Functional isomer
(v) Position isomer | (iii) Functional isomer
(vi) Functional isomer |
|----|---------------------------------------|---|---|

