



# CFE-KOTA

IIT-JEE | NEET | Foundation

A Unit of PP SAVANI

*Beginning For Successful Career*

## TOPIC : Structural Isomerism

CLASS : 11 JEE / NEET

Subject : CHEMISTRY

### DPP - 01

**Q.1** Acetamide is isomer of -

- (A) 1-amino ethanol  $\text{CH}_3\text{-}\overset{\text{NH}_2}{\text{CH}}\text{-OH}$   
(B) Formamide  $\text{H}-\overset{\text{O}}{\parallel}{\text{C}}-\text{H}$   
(C) Ethyl amine  $\text{C}_2\text{H}_5\text{NH}_2$   
(D) Acetaldehyde oxime  $\text{CH}_3\text{-CH=N-OH}$

**Q.2** 2-chlorobutane & 3-chlorobutane are -  
(A) Positional isomers (B) Chain isomers  
(C) Geometrical (D) None of these

**Q.3** An alkane forms isomers if it possess minimum no. of carbon atoms -  
(A) 1 (B) 2 (C) 3 (D) 4

**Q.4** Which of the following are isomers -  
(A) Ethanol and ethoxy ethane  
(B) Methanol and methoxy methane  
(C) Propanoic acid and ethyl acetate  
(D) Propionaldehyde and acetone

**Q.5** Rearrangement reaction converts any compounds into -

- (A) Higher homologue  
(B) Lower homologue  
(C) Isomers  
(D) Uncertain

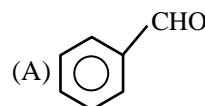
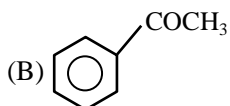
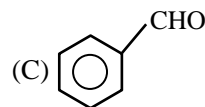
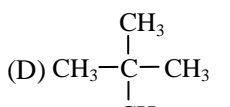
**Q.6** Alkynes are isomers of -

- (A) Cycloalkane (B) Alkadiene  
(C) Alkene (D) All of the above

**Q.7**  $\text{CH}_3\text{-CH}_2\text{-CHO}$  &  $\text{CH}_2=\text{CH-CH}_2\text{OH}$  are -

- (A) functional isomer (B) tautomers  
(C) position isomer (D) metamers

**Q.8** Which of the following compounds can exhibit tautomerism?

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

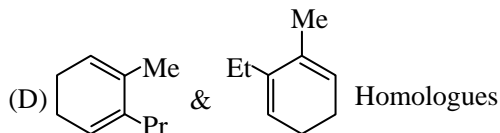
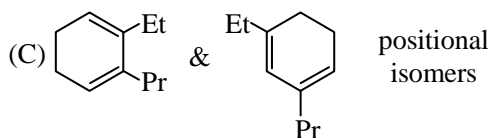
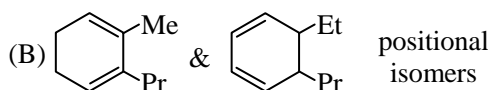
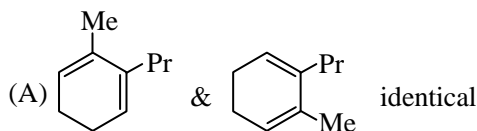
**Q.9**  $C_7H_7Cl$  shows how many benzenoid aromatic isomers ?

- (A) 4 (B) 3 (C) 5 (D) 6

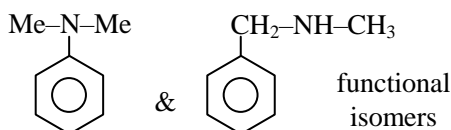
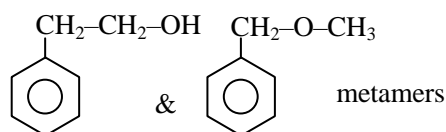
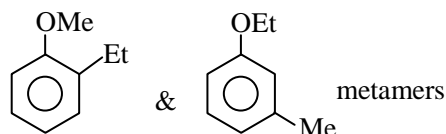
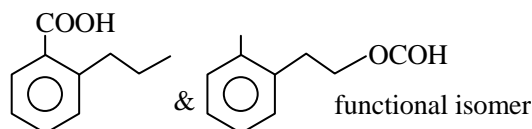
**Q.10** How many cyclic structural isomers of  $C_4H_7Cl$  is possible -

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

**Q.11** Which of the following has **incorrect** relation



**Q.12** Which of the following order is correct -



- (A) TTFB (B) FTTF  
(C) TTFT (D) TFFT

**Q.13** The type of isomerism observed in urea molecules is

- (A) Chain (B) Position  
(C) Geometrical (D) Functional

**Q.14** How many structural formula are possible when one of the hydrogen is replaced by a chlorine atom in anthracene ?

- (A) 3 (B) 7 (C) 4 (D) 6

**Q.15** Which of the following cannot be written in an isomeric form ?

- (A)  $CH_3-CH(OH)-CH_2-CH_3$   
(B)  $CH_3-CHO$   
(C)  $CH_2=CH-Cl$   
(D)  $Cl-CH_2CH_2-Cl$

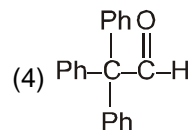
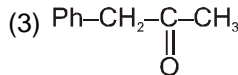
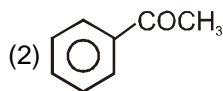
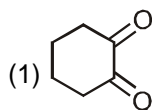
**Q.16** Only two isomeric monochloro derivatives are possible for (excluding stereo)

- (A) n-butane (B) 2,2-dimethylpentane  
(C) benzene (D) neopentane

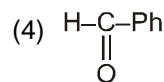
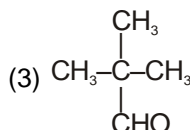
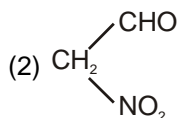
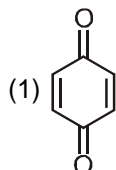
## DPP - 02

### TOPIC : Tautomerism :

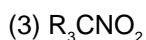
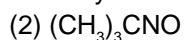
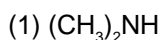
1. Which of the following does not show tautomerism ?



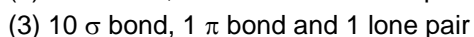
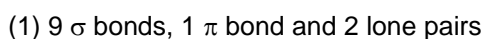
2. Which of the following can show tautomerism ?



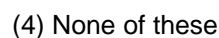
3. Tautomerism will be exhibited by :



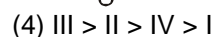
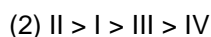
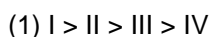
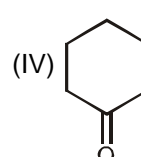
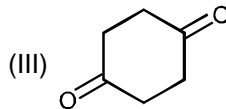
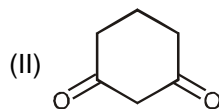
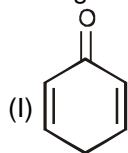
4. The enolic form of acetone contains :



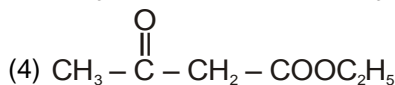
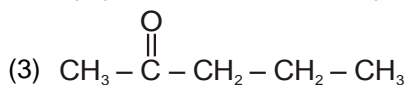
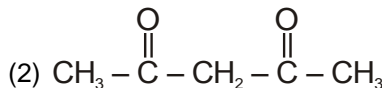
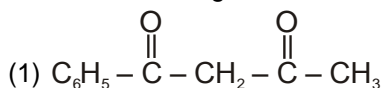
5. Molecule can be enolised by which hydrogen ?



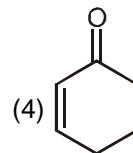
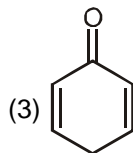
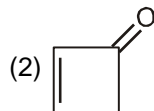
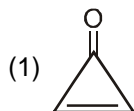
6. Arrange the following in decreasing order of percentage enol content ?



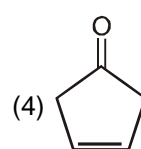
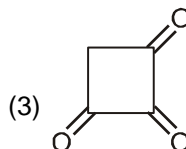
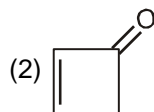
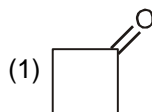
7. Enol content is highest in :

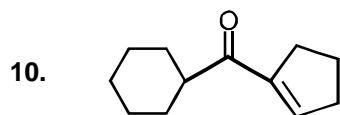


8. Which one has maximum % of enol content :



9. Which one has minimum % of enol content :





How many enolisable -H are present in the above compound ?

(1) 2

(2) 3

(3) 4

(4) 5

## ANSWER KEY

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### DPP - 01

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Q.No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ans.	D	D	D	D	C	B	A	B	A	A	B	C	D	A	C	A

### DPP - 02

1. (4)    2. (2)    3. (4)    4. (1)    5. (3)    6. (1)    7. (1)  
 8. (3)    9. (2)    10. (2)