1. A position isomer of butyne-1 is -

(A) Butene-1 (B) Butene-2 (C) Butyne-2 (D) Buta-1, 3-diene

2. Which of the following is an isomer of propanal ?

(A) Ethanol (B) Acetone (C) Propanol (D) Popanoic acid

3. Compounds $CH_3NHC_3H_7$ and $C_2H_5NHC_2H_5$ exhibit –

(A) Geometrical isomerism (B) Optical isomerism

(C) Position isomerism (D) Metamerism

4. Which type of isomerism is shown by diethyl ether and methyl propyl ether ?

(A) chain (B) function (C) metamerism (D) position

5. How many primary amines are possible for the formula $C_4H_{11}N$?

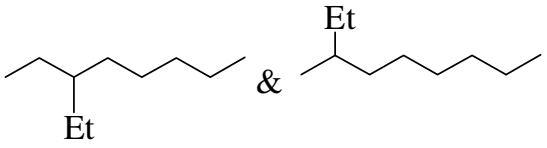
(A) 1 (B) 2 (C) 3 (D) 4

6. C_7H_7Cl shows how many isomers ?

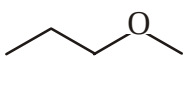
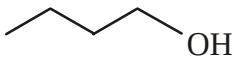
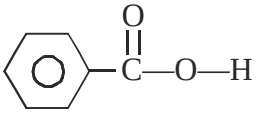
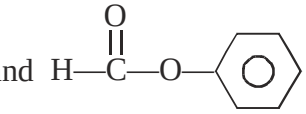
(A) 4 (B) 5 (C) 3 (D) 2

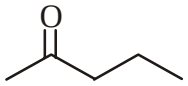
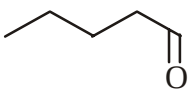
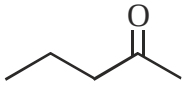
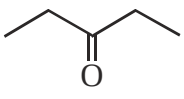
7. Which of the following are chain isomers :

(A) $CH_3CH_2CH_2–Cl$ & $CH_3 – \underset{\displaystyle CH_3}{\underset{|}{CH}} – Cl$ (B) $CH_3CH_2CH_2–CN$ & $CH_3 – \underset{\displaystyle CN}{\underset{|}{CH}} – CH_3$

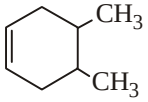
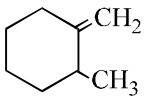
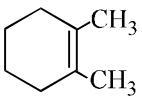
(C) $CH_3CH_2CH_2CH_3$ & $CH_3 – \underset{\displaystyle CH_3}{\underset{|}{CH}} – CH_3$ (D)  &

8. One of the following is not the pair of functional isomers.

(A)  and  (B)  and 

(C)  and  (D)  and 

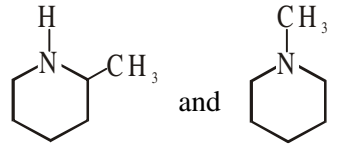
9. Write increasing order of heat of hydrogenation :

(i) (ii) (iii)

10. How many total number of structural isomer are possible for C_4H_7Cl having parent chain of four carbon.

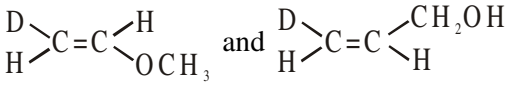
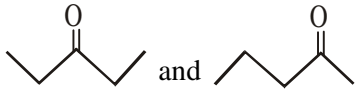
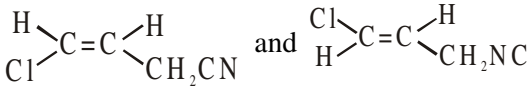
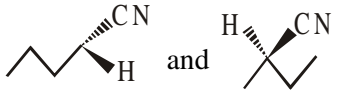
11. Identify the relationship between the given compound :



12. Which of the following is correct matchings?

Column –I	**Column -II**
(A) $CH_3–\overset{O}{\overset{\|}{C}}–OH$ & $H–\overset{O}{\overset{\|}{C}}–OCH_3$	metamers
(B) $CH_3–CH_2–C\equiv CH$ & $CH_3–C\equiv C–CH_3$	position isomers
(C) $CH_3CH_2CH_2NH_2$ & $CH_3–\underset{\displaystyle NH_2}{\underset{\|}{C}}H–CH_3$	tautomers
(D) CH_3CH_2OH & $(CH_3)_2O$	tautomers

13. Match the column :

Column-I (Compound)	**Column-II (Isomerism)**
(A) 	(P) Functional isomers
(B) 	(Q) Geometrical isomers
(C) 	(R) Position isomers
(D) 	(S) Chain isomers
	(T) Metamer

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1. (C) **2.** (B) **3.** (D) **4.** (C) **5.** (D) **6.** (A) **7.** (BCD) **8.** (D)
9. (ii) > (i) > (iii) **10.** (7) **11.** (FGI) **12.** (B) **13.** (A) → P ; (B) → T ; (C) → P ; (D) → S