

## MDCAT Chemistry Chapter 12 Transition Elements Online Test

| Sr | Questions  | Answers Choice   |
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| 1  | Alkanes do not show geometrical isomerism due to   | A. Hyperconjugation<br>B. Resonance<br>C. Rotation around single bond<br>D. Restricted rotation around double bond                           |
| 2  | As the number of carbon atoms increases the number of isomers also increase. The 5 C compound pentane has as many as | A. 3 isomers<br>B. 5 isomers<br>C. 6 isomers<br>D. 10 isomers  |
| 3  | The aliphatic compounds are of two types   | A. Straight chain and cyclic<br>B. Branched chain and alicyclic<br>C. Straight chain and branched<br>D. Homocyclic and alicyclic             |
| 4  | Butane molecule can have maximum no of isomers   | A. 2<br>B. 5<br>C. 4<br>D. 3   |
| 5  | Which of the compounds cannot show positional isomerism?   | A. Alkanes<br>B. Alkenes<br>C. Alkynes<br>D. Alcohols  |
| 6  | Which of the following is not heterocyclic compound?   | A. Naphthalene<br>B. Furan<br>C. Pyridine<br>D. Pyrrole  |
| 7  | Alicyclic compounds are the homocyclic compounds which contain a ring of   | A. 5 or more carbon atoms<br>B. 6 or more carbon atoms<br>C. 3 or more carbon atoms<br>D. 4 or more carbon atoms                             |
| 8  | Which one of the following does not show isomerism?  | A. Propane<br>B. Hexane<br>C. Butane<br>D. Pentane   |
| 9  | Indicate the number of open chain isomers of C <sub>6</sub> H <sub>14</sub>  | A. 4<br>B. 5<br>C. 6<br>D. 7   |
| 10 | Nitro alkanes exhibit the:   | A. Chain isomerism<br>B. Positional isomerism<br>C. Functional group<br>D. Metamerism  |
| 11 | A doubly bonded carbon is  | A. cannot be sp <sup>2</sup> hybridized<br>B. can be sp hybridized<br>C. can attach with three carbons<br>D. can attach with three hydrogens |
| 12 | Total number of possible chain and positional isomers of butyl alcohol among alcohols are                            | A. Four<br>B. Five<br>C. Two<br>D. Six   |
| 13 | Which one of the following is an aromatic compound?  | A. Benzene<br>B. Thiophene<br>C. Furan<br>D. All of them   |
| 14 | How many esters are possible for C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>  | A. 3<br>B. 2<br>C. 4<br>D. 5   |
| 15 | How many secondary carbon atoms are present in Methylcyclopropane  | A. 1<br>B. 2<br>C. 3<br>D. 4   |

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| 16 | Which class of compound cannot show positional isomerism?                    | A. Alkanes<br>B. Alkene<br>C. Alkynes<br>D. Alcohol  |
| 17 | If similar groups are attached to the same side, of C=C of alkene then it is | A. Cis isomer<br>B. Trans isomer<br>C. Tautomer<br>D. All  |
| 18 | The structural isomerism arises due to the difference in the                 | A. Number of atoms in the molecule<br>B. Arrangements of atoms in the molecule<br>C. Number as well as arrangement of atoms in the molecule<br>D. Spatial arrangement of atoms |
| 19 | 2-propanol shows-----isomerism with 1-propanol                               | A. Chain isomerism<br>B. Positional isomerism<br>C. Metamerism<br>D. Geometrical isomerism   |
| 20 | Ether show the phenomenon of   | A. Positional isomerism<br>B. Functional group isomeris<br>C. Meta merism<br>D. Cis trans isomerism  |