

## ECAT Chemistry Online Test

Sr	Questions	Answers Choice
1	The fractions obtained from fractional distillation of petroleum are placed in increasing order of their boiling points. Which order is correct	A. Natural gas, petroleum ether, gasoline kerosene B. Petroleum ether, kerosene, natural gas, petroleum ether C. Gasoline, kerosene, natural gas, petroleum ether D. Kerosene, gasoline, petroleum ether, natural gas
2	The major portion of natural gas is	A. Ethane B. Propane C. Butane D. Methane
3	The self linking property of carbon is called as	A. Linking polymerization B. Addition C. Catenation D. Elimination
4	The destructive distillation of coal gives three products. What is not the product of destructive distillation of coal	A. Coal gas B. Carbon dioxide C. Coal tar D. Coke
5	Which is not a fossil fuel	A. Petroleum B. Coal C. Natural gas D. None of them
6	The active part in a molecule is called	A. Hetroatom B. Functional group C. Chemical bond D. Ion
7	Who rejected the vital force theory	A. Wholer B. Fisher C. Newton D. Lewis
8	The atom other than C in a hetrocyclic compound is called as	A. Hetroatom B. Hetroion C. Hetromolecule D. Hetroelement
9	The coordination number of iron in $[\text{Fe}(\text{H}_2\text{O})_6]^{3+}$ is	A. 2 B. 3 C. 4 D. 6
10	What is the name of the complex $[\text{Ni}(\text{CO})_4]$	A. Tetracarbonylnickel (0) B. Tetracabonylnickel C. Tetracabonylnickel (II) D. Tetracabonylnickel (IV)
11	$[\text{Co}(\text{NH}_3)_6]^{3+}$ will form _____ structure	A. Square planar B. Tetrahedral C. Octahedral D. Trigonal bipyramidal
12	Which is in different phase from other metals	A. Ni B. Hg C. Cd D. Na
13	Which of the following is not related to transition metals	A. They have a high tensile strength B. They are ductile C. They are malleable D. They have low melting points
14	Which of the following acts as ligand	A. $\text{NH}_3$ B. $\text{NH}_2^-$ and $\text{CH}_3^-$ C. $\text{C}_2\text{O}_4^{2-}$ D. $\text{H}_2\text{O}$

D. All these

15	Electronic configuration of $\text{Cu}^{2+}$ is	A. $4s^2, 3d^9$ B. $4s^1, 3d^{10}$ C. $4s^0, 3d^9$ D. None of these
16	The free spaces between the metal atoms and its crystal lattice are called	A. Valance spaces B. Empty spaces C. Interstices D. None
17	Platinum (IV) chloride combines with ammonia to form compounds in which the coordination number of the platinum is 6. A formula unit on one of the compound contains a cation and only two chloride ions. What is the formula of this compound	A. $\text{Pt}(\text{NH}_3)_6\text{Cl}_4$ B. $\text{Pt}(\text{NH}_3)_3\text{Cl}_4$ C. $\text{Pt}(\text{NH}_3)_3\text{Cl}_4$ D. $\text{Pt}(\text{NH}_3)_3\text{Cl}_4$
18	Which of the following d-block elements can show the highest oxidation number in its compounds	A. Chromium B. Copper C. Nickel D. Manganese
19	Titanium is used as a catalyst in	A. Hydrogenation B. Dehydrogenation C. Polymerization of P.E. D. Oxidation of ammonia
20	Which of the following is a transition element	A. Sr B. Sn C. Cr D. Pb
21	A phototographic plate is coated with an emulsion of silver nitrate and	A. AgCl B. AgI C. AgBr D. $\text{NaNO}_3$
22	Stainless steel contains Cr upto	A. 12% B. 18% C. 10% D. 5%
23	Corrosion may be prevented by	A. Allcying B. Paints C. Metallic coatings D. All
24	Which of the following is used as disinfectant	A. $\text{K}_2\text{Cr}_2\text{O}_7$ B. $\text{KMnO}_4$ C. $\text{K}_2\text{MnO}_4$ D. $\text{K}_2\text{CrO}_4$
25	The oxidation number of Ni in $[\text{Ni}(\text{CO})_4]$ is	A. +1 B. 0 C. +4 D. -4
26	The oxidation state of Fe in $[\text{Fe}(\text{CN})_6]^{3-}$ is	A. +2 B. +3 C. +4 D. -3
27	The formula of curprite is	A. $\text{Cu}_2\text{S}$ B. $\text{CuS}$ C. $\text{Cu}_2\text{O}$ D. $\text{CuCO}_3$
28	The geometry of $[\text{Co}(\text{NH}_3)_6]^{3+}$ is	A. Tetrahedral B. Square planar C. Octahedral D. None of these
29	Which metal is used for catalytic hydrogenation of oils	A. Cu B. Pt C. Ni D. Pd
30	The amount of Ni in stainless steel is	A. 3% B. 4% C. 5% D. 8%