

ECAT Chemistry MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Coal contains sulphur in it :	A. 1 - 3% B. 1 - 6% C. 1 - 9 % D. 1 - 12%
2	Gases deviate from ideal behavior at high pressure. Which of the following is correct for non-ideality ?	A. At high pressure, the gas molecules move in one direction only. B. At high pressure, the collisions between the gas molecules are increased manifold. C. At high pressure, the volume of gas becomes insignificant. D. At high pressure, the inter molecular attraction become significant.
3	Phenol gives ----- Colour with neutral FeCl ₃ solution	A. Violet B. Green C. Red D. Blue
4	Most metals are conductors of electricity because of the :	A. Light weight. B. Immobility of the electrons. C. Lustrous surfaces D. Relatively free movement of their electrons
5	The oxyacids of phosphorus in which phosphorus has the lowest oxidation state is	A. Hypophosphorus acid B. Orthophosphorus acid C. Pyrophosphorus acid D. Metaphosphorus acid
6	Question Image	A. s B. p C. d D. f
7	A pseudo uni-molecular reaction has order of reaction :	A. 3 B. 2 C. 1 D. 0
8	Question Image	A. Adding H ₂ O and H ⁺ ions B. Adding OH ⁻ ions C. Adding O ₂ molecules D. Adding O atoms
9	Which heavy metals do not have any safe limits	A. As B. Hg C. Cr D. All of these
10	The benzene molecule contains:	A. Three double bond B. Two double bond C. One double bond D. Delocalized electron charge
11	A gas bulb is filled with NO ₂ gas and immersed in an ice bath at 0°C which becomes colourless after sometimes. This colourless gas will be	A. NO ₂ B. N ₂ O C. N ₂ O ₄ D. N ₂ O ₅
12	The oxidation number of each element of group II-A is	A. 0 B. +1 C. +2 D. -1
		A. Starch

13	Which carbohydrates is an essential constituent of plant cells?	B. Cellulose C. Sucrose D. Vitamins
14	During the manufacturing process of cement the temperature of the decomposition zone goes up to	A. 600 ^o C B. 8000 ^o C C. 1000 ^o C D. 1200 ^o C
15	K_b value of NH_4OH is 1.81×10^{-5} and its conjugate acid has $K_a = 5.7 \times 10^{-10}$ pK_b of the base is 4.74, pK_a of its conjugate acid is	A. -4.74 B. 4.74 C. 10 D. 9.26
16	Number of sigma bonds in P_4O_{10} is	A. 6 B. 7 C. 17 D. 16
17	The overlapping of two partially filled atomic orbital is in such a way that the probability of finding the electron pair is maximum along the axis joining the two nuclei, the bond is	A. Sigma bond B. Pi bond C. Ionic bond D. Non-polar bond
18	Which is a reagent for Lucas test	A. $\text{ZnCl}_2 + \text{Conc. HCl}$ B. Zn C. Na D. Br
19	Ascorbic acid contains 40.92% carbon, 4.58% hydrogen and 54.4% oxygen. The empirical formula is	A. $\text{C}_3\text{H}_4\text{O}_3$ B. $\text{C}_2\text{H}_4\text{O}_3$ C. $\text{C}_3\text{H}_5\text{O}_4$ D. $\text{C}_2\text{H}_3\text{O}_1$
20	Benzene does not undergo	A. Substitution reaction B. Addition reaction C. Oxidation reaction D. Elimination reaction