

## ECAT Chemistry Online Test

Sr	Questions	Answers Choice
1	What element is not essential the growth of plants and is not required in the fertilizers	A. Nitrogen B. Potassium C. Phosphorus D. Barium
2	Substances that tend to decrease the activity of enzymes are called	A. Coenzyme B. Activators C. Inhibitors D. Apoenzyme
3	Question Image	A. Small change in concentration of product     B. Small time internal     C. Co-efficient of the reactant     D. Co-efficient of the product
4	Which statement is incorrect for balancing of redox reactions by ion-electron method	A. The reaction is splitted into two half reactions B. H <sub>2</sub> O and H <sup>+ </sup> ions are added for acidic or neutral reaction to balance O and H atoms C. To balance H, HCi, is added D. To balance O and H in the alkaline reaction OH <sup>-</sup> added
5	The mass of the neutron is of the order of	A. 10 <sup>-23 </sup> kg B. 10 <sup>-24</sup> kg C. 10 <sup>-26</sup> kg D. 10 <sup>-27</sup> kg
6	Extent to H <sub>2</sub> +L <sub>2</sub> →2Hl can be increased by :	A. Increasing temperature. <o:p></o:p> B. Increasing product. <o:p></o:p> C. Increasing prosure. <o:p></o:p> D. Increasing pressure. <o:p></o:p> D. Adding a catalyst. <o:p></o:p>
7	1 erg of energy corresponds to	A. 6.02 x 10 <sup>23</sup> J/mol B. 6.02 x 10 <sup>16</sup> J/mol C. 1 erg/mol D. 10 <sup>-7</sup> J/mol
8	When ethyl iodide and n-propyl iodide are allowed to react with sodium metal in ether, the number of alkanes that could be produced is	A. Only one B. Two alkanes C. Three alkanes D. Four alkanes
9	In the expression rate = $K [A]^a [B]^b K$ is	A. The order of reaction B. The speed of reaction C. The specific rate constant D. The overall order of reaction
10	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. Pt(NH <sub>3</sub> ) <sub>6</sub> Cl <sub>4</sub> B. Pt(NH <sub>3</sub> ) <sub>5</sub> Cl <sub>4</sub> C. Pt(NH <sub>3</sub> ) <sub>5</sub> Cl <sub>4</sub> D. Pt(NH <sub>3</sub> ) <sub>4</sub> Cl <sub>4</sub> D. Pt(NH <sub>3</sub> ) <sub>4</sub> Cl <sub>4</sub>
11	Amiino acids are building blocks of:	A. Protein B. Carbohydrates C. Lipids D. Fats
12	Unsaturated hydrocarbon containing a double bond are called	A. paraffin B. Alkanes C. Olefins D. Acetylene
		A. Carbon

13	Which of the following is most electronegative?	B. Silicon C. Lead D. Tin
14	Half life period of a first order reaction is independent of:	A. Presence of catalyst. B. Conditions of temperature C. Initial concentration of the compound D. All of above
15	When acetamide reacts with Br <sub>2</sub> and caustic soda, then we get	A. Acetic acid B. Bromoacetic acid C. Methyl amine D. Ethylamine
16	Photochemical smog is caused by	A. CO B. CO <sub>2</sub> C. O <sub>3</sub> D. NO <sub>2</sub>
17	The change in concentration of reactant or product per unit time is called :	A. Rate constant. B. Rate of reaction. C. Rate equation. D. Rate law.
18	Cannizzaro reaction is not given by	A. Trimethyl acetaldehyde B. Acetaldehyde C. Benzaldehyde D. Formaldehyde
19	$\text{N}_2\text{O}_4 \!$	A. <o:p></o:p> <o:p> Kc = [ N<sub>2</sub>O<sub>4</sub>]/[ NO<sub>2</sub>]<sup>&lt;<o:p></o:p> B. Kc = [ N<sub>2</sub>O<sub>4</sub>]/ [NO<sub>2</sub>O<sub>42</sub>]/ [NO<sub>2</sub>]/ [NO<sub>2</sub>]/ [NO<sub>2</sub>]/ [NO<sub>2</sub>]/ [NO<sub>2</sub>]/ [N<sub>2</sub>] O<sub>4</sub>] O:p&gt;</sup></o:p> D. Kc = [ N <sub>2</sub> O <sub>4</sub> ] O:p> D. Kc = [ N <sub>2</sub> O <sub>4</sub> ]/[ N <sub>2</sub> ]/[ N <sub>2</sub> O <sub>4</sub> ]/[ N <sub>2</sub> ]/[ N <sub>2<!--</td--></sub>
20	Carbon atom holding halogen in aryl halides is	A. sp <sup>2</sup> -hybridesed B. sp <sup>3</sup> -hybridesed C. sp-hybridesed D. sp <sup>3</sup> d-hybridesed