

## ECAT Chemistry MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	2-Bromopentane is heated with potassium ethoxide in ethanol . The major product obtained is	A. 2-Ethoxypentane B. Pent-1-ene C. cis-Pent-2-ene D. trans-Pent-2-ene
2	Detergents are	A. Synthetic products B. Natural products C. Both (a) and (b) D. None of these
3	When formaldehyde is added to Grignard reagent we get	A. Aldehyde B. Acetone C. Primary alcohol D. Secondary alcohol
4	Grignard reagent on reaction with a ketone forms	A. Tertiary alcohol B. Secondary alcohol C. Primary alcohol D. Carboxylic acid
5	Which three elements are needed for the healthy growth of plants	A. N, S, P B. N, Ca, P C. N, P, K D. N, K, C
6	Which of the following species has unpaired electrons in ant-bonding molecular orbitals?	A. $O_2^{+2}$ B. $N_2^{-2}$ C. $B_2$ D. $F_2$
7	Which structure shows a tertiary alcohol	A. $CH_3CH_2CH_2OH$ B. $(CH_3)_3COH$ C. $(CH_3)_3COH$ D. $CH_2CH_2OH$
8	Alcohols react with carboxylic acid to produce the class of compounds known as	A. Grignard's reagent B. Esters C. Amides D. None of these
9	For a given process the heat change at constant pressure $q_p$ is related to the heat change at constant volume ( $q_v$ ) according to	A. $q_p = q_v$ B. $q_p < q_v$ C. $q_p > q_v$ D. $q_p = q_v/2$
10	Allotropic forms of phosphorus are	A. three B. four C. five D. six
11	Which compound shows hydrogen bonding	A. $C_2H_6$ B. $C_2H_5Cl$ C. $CH_3COH$ D. $C_2H_5OH$
12	Which gas is used for welding purposes	A. Butane B. Nitrogen C. Methane D. Acetylene
13	In a chemical change, the energy in the from of heat will either be evolved or absorbed and this is called:	A. Endothermic. B. Heat of products. C. Exothermic reaction. D. Heat of reaction.

14	Milk of lime is	A. MgO B. CaO C. $\text{Ca(OH)}_2$ D. $\text{Mg(OH)}_2$
15	The boiling point of $\text{NH}_3$ is maximum among the hydrides of group V elements due to:	A. Enhanced electronegative character of Nitrogen B. Pyramidal structure of $\text{NH}_3$ C. Very small size of Nitrogen. D. Enhanced electropositive character of Nitrogen
16	Bronze is an alloy of Cu and	A. Zn B. As C. Sb D. Sn
17	Coal is used to bake bricks in lime kiln:	A. 40% B. 60% C. 80% D. None of these
18	96500 C of electricity liberates from $\text{CuSO}_4$ solution	A. 63.5 g of Cu B. 31.75 g of Cu C. 96500 g of Cu D. 100 g of Cu
19	Which ion will have the maximum value of heat of hydration?	A. $\text{Na}^+$ B. $\text{Cs}^+$ C. $\text{Ba}^{2+}$ D. $\text{Mg}^{2+}$
20	50 cm <sup>3</sup> of 0.05 molar urea ( $\text{N}_2\text{H}_4\text{CO}$ ) solution has % W/V concentration	A. 6% B. 3% C. 0.3 % D. 0.6 %