

ECAT Chemistry Online Test

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Sr	Questions	Answers Choice
1	How many alcohol (including both structural isomers and stereoisomers) can have the molecular formula $\text{C}_4\text{H}_{10}\text{O}$	A. 3 B. 4 C. 5 D. 6
2	Select from the following which one is alcohol?	A. CH ₃ - CH ₂ -OH B. CH ₃ -O- CH ₃ - C. CH ₃ -COH D. CH ₂ -COH D. CH ₂ -CH ₂ -CH ₂ -CH ₂ -CH ₂ -CH ₂ -CH ₋
3	Similarity in properties of different organic compounds give rise to the under standing of	A. Polymerization B. Non-polar nature C. Homologous series D. Isomerism
4	The bond length b/w atoms of hydrogen in the hydrogen molecules is:	A. 7.54 nm. B. 0.0754 nm. C. 0.754 nm. D. 0.00754 nm.
5	Question Image	A. 154 pm B. 133 pm C. 120 pm D. 150 pm
6	A double bond consists of	A. Two sigma bonds B. One sigma and one Pi bond C. One sigma and two Pi bonds D. Two Pi bonds
7	In the presence of copper electrodes the electrolysis of aqueous CuSO ₄ produces at cathode	A. H ₂ gas B. O ₂ gas C. SO ₂ gas D. Cu metal
8	On passing HCl gas through a saturated solution of commercial sodium chloride, pure crystals of NaCl are precipitated due to	A. Increase in pH of the solution B. Decrease in pH of the solution C. Common ion effect D. Increase in ionization of NaCl
9	Question Image	A. Plank's equations B. de Broglie's equations C. Heisenburg's equation D. None
10	When propanamide reacts with Br_2 and NaOH then which of the following compounds is formed?	A. Ethyl alcohol B. Propyl alcohol C. Propyl amine D. Ethylamine
11	Methanol is prepared from CO and H_2 using catalyst:	A. ZnO B. Cr ₂ O ₃ C. Pt D. Ni
12	At what pH glycine shows the structure H _{3N} ⁺ CH ₂ COOH	A. 2 B. 7 C. 10 D. 14
13	Rusting can be avoided by :	A. Making alloys B. Tin or Zinc plating C. Use of enamel D. All of these
14	The molarity of the solution containing x grams (NH ₄) $_2$ SO ₄ in 500 cm ³ of the solution is 0.6 what is x	A. 39.6 B. 45.1 C. 40.5 D. 42.7
		A. Acidified (aq) KMnO ₄

15	What will react differently with the two isomeric pentols, (CH $_3$) $_3$ CCH $_2$ OH and (CH $_3$) $_2$ CH CH $_2$ CH $_2$ OH	B. Concentrated H ₂ SO ₄ C. PCI D. Sodium
16	Among the following polymers, the strongest molecular forces are present in	A. Elastomers B. Fibres C. Thermoplactics D. Thermosetting polymers
17	$\mbox{Fe}^{+3}\mbox{and }\mbox{Mn}^{2+}are strong paramagnetic because the number of unpaired electrons in each is$	A. 4 B. 5 C. 6 D. 7
18	Corrundam is ore of:	A. Li B. Be C. B D. Al
19	Organic compounds are soluble in all except	A. Benzene B. Petroleum C. Ether D. Water
20	RNA is a polymer of nucleotide which consist of three components. Which one is not the component in the nucleotide of an RNA	A. D-Ribose B. Wracil base C. Prosphate group D. Thyamine base