

ECAT Chemistry Online Test

Sr	Questions	Answers Choice
1	Cu ²⁺ with d ⁹ electronic configuration appears	A. Yellow B. Pink C. Blue D. Green
2	Boric acid cannot be used:	A. An antiseptic in medicine B. For washing eyes C. In soda bottles D. For enamels and glazes
3	Transition elements differ from s and p block elements due to their characteristic properties. What is not he characteristic property of transition elements	A. Transition elements show variable oxidation states B. Their salts are coloured C. They can be used as catalyst D. All of them are metals
4	Monosaccharides are	A. Aldoses B. Ketoses C. Either a and b D. None of these
5	Which of the following molecules has a net dipole moments	A. CO ₂ B. CS ₂ C. SO ₂ D. CCl ₄
6	Which is not a steroid	A. Cholesterol B. Ergosterol C. Phospholipids D. None of these
7	A one thousand ${\rm dm}^3$ sample of water contains one gram of iron (iii) ions what is the concentration in parts per million of ${\rm Fe}^{3f}({\rm eq})$ in parts per million	A. 0.001 B. 0.01 C. 0.1 D. 1.0
8	Variable valency is generally exhibited by	A. Normal elements B. Transition elements C. Metallic elements D. None of these
9	The mass of Al ₂ S ₃ formed when 20 grams Al reacts completely with S is	A. 60 g B. 50 g C. 50.55 g D. 55.55 g
10	Which of the following statements is no correct regarding bonding molecular orbitals?	A. Bonding molecular orbitals possess Is energy than atomic orbitals from which they are formed. B. Bonding molecular orbitals have low electron density between the two nuclei. C. Every electron in bonding molecular orbitals contributes to the attraction b.w atoms. D. Bonding molecular orbitals are formed when the electron waves undergo constructive interference.
11	Which of the following oxides is unlikely to dissolve in aqueous hydroxide	A. Al ₂ O ₃ B. MgO C. SO ₂ D. SIO ₂
12	Glyptal polymer is obtained from glycerol on reacting with	A. Malonic acid B. Phthalic acid C. Maleic acid D. Acetic acid
13	Identify the heterocyclic compound	A. Toluene B. Pyridine C. Butanoic acid D. Propenol
		A. Alkanes

14	Alkyl halides on treatment with Zn and HCl gives	B. Alkenes C. Alkynes D. Alcohols
15	All covalent bonds formed between the two atoms are non-polar when	A. Covalent bond between two non-metal atoms B. Covalent bond between metal and non-metal C. Covalent bond between two atoms of same element D. Covalent bond between metal atoms
16	Hybridized in oxygen is:	A. sp B. sp ² C. sp ³ D. dsp ³
17	On hydrolysis of starch, we finally get	A. Glucose B. Fructose C. Both D. Sucrose
18	Sodium should be stored in	A. Air free from moisture B. Air free form carbon dioxide C. Under water D. Under kerosene oil
19	The best buffer is prepared when molar concentrations of the salt and acid are equal, then its pH and pKa value are related	A. pH = pKa B. pH < pKa C. pH > pKa D. pH x pKa = 14
20	The solution of which acid is use for seasoning of food?	A. Formic acid B. Acetic acid C. Benzoin acid D. Butanoic acid