

## ECAT Chemistry Online Test

Cr.	Questions	Answers Choice
Sr	Questions	
1	${\rm Fe^{+3}}{\rm and~Mn^{2^{+}}}{\rm are~strong~paramagnetic~because~the~number~of~unpaired~electrons~in~each~is}$	A. 4 B. 5 C. 6 D. 7
2	d-block elements closely resemble in their physical and chemical properties. Which statement is incorrect	A. They show variable valency     B. Their ions and compounds are coloured     C. They are good conductors of heat and electricity     D. Their compounds are diamagnetic
3	CuSO <sub>4</sub> . 5H <sub>2</sub> O is used to prepare	A. Transition complex B. Fehling's 'A' sol C. Fehling's 'B' sol D. Fehling's sol
4	IIB elements (Zn, Cd, Hg) and III B elements (Sc, Y and La) are	A. Non typical transition element     B. Typical transition element     C. Normal elements     D. Inner transition element
5	Which element belong to 5d series	A. V B. Nb C. Pd D. Hf
6	Which element does not belong to 4d series	A. Y B. Zr C. Mo D. Zn
7	Which element does not belong to 3d transition series	A. Ti B. V C. Mn D. Te
8	In the electronic configuration of Cr one electron from 4s sub-shell is transfered to 3d sub-shell because	A. The 3rd orbital is of lower energy than 4s B. The 4s orbital is of equal energy to 3d orbital C. The half filled d-subshell is more stable than incomplete d-sub shell D. 6 unpaired electrons make Cr more paramagnetic
9	Which element has highest oxidation potential	A. Li B. Be C. Ba D. Ra
10	Which of the following sulphates has the highest solubility in water	A. BaSO <sub>4</sub> B. CaSO <sub>4</sub> C. MgSO <sub>4</sub> D. BeSO <sub>4</sub>
11	The chemical formula of Trona is	A. KCI . MgCl <sub>2</sub> . 6H <sub>2</sub> O B. Na <sub>2</sub> CO <sub>3</sub> . 2NaHCO <sub>3</sub> . 2H <sub>2</sub> O C. Na <sub>2</sub> CO <sub>3</sub> . H <sub>2</sub> CO <sub>3</sub> . H <sub>2</sub> O D. KCI
11	The chemical formula of Trona is  Commercial common salt becomes slight damp on storing because	6H <sub>2</sub> O B. Na <sub>2</sub> CO <sub>3</sub> . 2NaHCO <sub>3</sub> . 2H <sub>2</sub> O C. Na <sub>2</sub> CO <sub>3</sub> . H <sub>2</sub> O

14	Sodium is manufacture by the electrolysis of fused sodium chloride and not from an aqueous solution of sodium chloride because	A. Sodium chloride does not ionize in the water solution B. Sodium chloride is not soluble in water C. Sodium deposited at the cathode may react with water to form sodium hydroxide D. Electricity does not pass through aqueous NaCl
15	Which of the following statement is not related to Solvay's process of Na <sub>2</sub> CO <sub>3</sub>	A. Cheap materials     B. Pure product     C. Continuous process     D. Harmful by-products
16	Which of the following equations represents the action of heat on NaHCO <sub>3</sub>	
17	Some of the elements of a period show similar behavior with the elements of next group in next period this is called	A. Vertical relationship B. Oblique relationship C. Diagonal relationship D. None
18	Which one of the following equations represent the reaction that occurs when calcium nitrate is heated strongly	
19	Marble is chemically	A. CaCl <sub>2</sub> B. CaCO <sub>3</sub> C. Na <sub>2</sub> CO <sub>3</sub> D. NaHCO <sub>3</sub>
20	Which salt is used for preserving food	A. BaCl <sub>2</sub> B. CaCl <sub>2</sub> C. NaCl D. Na <sub>2</sub> SO <sub>4</sub>
21	Which salt is used for the treatment of hyperacidity in stomach	A. NaCl B. KCl C. NaHCO <sub>3</sub> D. Na <sub>2</sub> CO <sub>3</sub>
22	Which of the following salt is used as purgative	A. CaSO <sub>4</sub> B. MgSO <sub>4</sub> C. BeSO <sub>4</sub> D. NaCl
23	The chemical formula of Epson salt is	A. MgSO <sub>4</sub> B. MgCl <sub>2</sub> C. MgSO <sub>4</sub> 7H <sub>2</sub> O D. MgCl <sub>2</sub> 7H <sub>2</sub> O
24	NaHCO3is prepared by	A. Down's process B. Solvay's process C. Nelson's process D. None of these
25	Sodium is never found free in nature because of its	A. Chemical reactivity B. Small ionic size C. Small atomic volume D. None of these
26	Which of the following are electropositive in nature	A. Alkali metals     B. Alkaline earth metals     C. Halogens     D. Alkali and alkaline earth metals
27	The oxidation number of each element of group II-A is	A. 0 B. +1 C. +2 D1
28	The oxidation number of each element of group I-A is	A. 0 B. +1 C. +2 D1
29	Which of the following element is most reactive	A. Li B. Na C. K D. Cs
30	Sodium forms largely	A. Normal oxides B. Per-oxides C. Superoxides D. None of these