

Gurudas College
Internal Assessment -2020
Chemistry (General)
Semester-V
Subject- CEMG
Paper- DSE-A-2

Time: 30 mins

Full marks: 10

Answer any **TEN** questions

Each question carries **Equal** marks

1. What is the tetrahedral unit of pyro silicates?
(a) $\text{Si}_2\text{O}_7^{6-}$ (b) SiO_4^{4-} (c) $[\text{SiO}_3]_n^{2n-}$ (d) none of these
2. Coloured glasses are prepared by mixing
(a) Alkali metals (b) alkaline earth metals (c) transition metals (d) none of these
3. What are the principle constituents of cement?
(a) Ca, Al, Si (b) Ca, Fe, Si (c) Al, Si, Zn (d) none of these
4. What is the first ceramics superconductor discovered with T_c greater than liquid nitrogen temperature
(a) $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ (b) Fe_2O_3 (c) TiO_2 (d) ZnO
5. The structure of graphene is
(a) sphere (b) sheet (c) tube (d) none of these
6. What is the formula of CAN fertilizer
(a) $5\text{Ca}(\text{NO}_3)_2 \cdot \text{NH}_4\text{NO}_3 \cdot 10\text{H}_2\text{O}$ (b) $5\text{Cu}(\text{NO}_3)_2 \cdot \text{NH}_4\text{PO}_3 \cdot 5\text{H}_2\text{O}$ (c) $5\text{Fe}(\text{NO}_3)_2 \cdot \text{KNO}_3 \cdot 7\text{H}_2\text{O}$ (d) none of these
7. Which of the following is NOT a part of surface pre-treatment?
(a) sand blasting (b) hand wiping (c) alkali degreasing (d) spraying
8. Which one among the following is a white pigment?
(a) ultramarine (b) zinc oxide (c) lead chromate (d) red lead
9. Which one among the following is a vehicle in paints?
(a) mustard oil (b) petroleum jelly (c) linseed oil (d) creosote oil
10. One example of thinner is
(a) Castor oil (b) cord liver oil (c) palm oil (d) turpentine oil
11. An example of secondary battery in which reversible reaction takes place is
(a) Primary batteries (b) Li ion batteries (c) leclanche cell (d) silver chloride batteries
12. Which one among the following is Wilkinson's catalyst?
(a) $\text{RhCl}(\text{PPh}_3)_3$ (b) $\text{HRhCO}(\text{PPh}_3)_3$ (c) $[\text{Rh}(\text{CO})_2\text{I}_2]^-/\text{HI}$ (d) none of these
13. In the Haber process of manufacturing NH_3 , which one acts as a catalyst?
(a) Co (b) Fe (c) Mn (d) Ni
14. Stainless steel has the composition of

(a) Fe (70%) + W (20%) + Ni (10%)

(b) Fe (70%) + Cr (20%) + Ni (10%)

(c) Fe (50%) + Mn (10%) + Sn (40%)

(d) Mn (70%) + Cr (20%) + Ni (10%)

15. Which one among the following is known as explosive?

(a) TNT (b) $\text{Pb}(\text{OAC})_2$ (c) MnSO_4 (d) none of these