

Chemistry-Class XII

SET-B

$z = e^{-\frac{a}{r}}$

TIME: 3 HOURS

M.M.: 70 MKS

All questions are compulsory

1. Questions 1-5 are very short answers of 1 marks each.
2. Questions 6-10 are short answer of 2 marks each.
3. Questions 11-22 are also short answers of 3 marks each.
4. Question 23 is a value based question and carries 4 marks.
5. Question numbers 24-26 are long answers of 5 marks each.

$x = -\frac{d \ln}{dt}$

- 1) What is the effect of Schottky defects on the density of the crystal?
- 2) What is antifreeze?
- 3) Why rate of reaction does not remain constant throughout?
- 4) Give one example of Micelles system?
- 5) What is Gangue? — 1
- 6) What do you mean by activity and selectivity of catalyst? — 2
- 7) Compare the stability of +2 oxidation state of the elements of the first transition series.
- 8) Noble gases have very low boiling points. Why?
- 9) Bond angle in PH_4^+ is higher than that in PH_3 . Why?
- 10) Giving examples, differentiate between roasting and calcination. — 2
- 11) If the radius of the octahedral void is r and radius of the atoms in close packing is R , derive relation between r and R . — 3
- 12) Explain what is observed when
 - i) A beam of light is passed through a colloidal solution.
 - ii) An electrolyte NaCl is added to hydrated ferric oxide sol.
 - iii) An electric current is passed through a colloidal sol.
- 13) Distinguish between the following
 - i) Lyophilic and Lyophobic sols.
 - ii) Multimolecular and macromolecular colloids.
 - iii) Physical adsorption and chemical adsorption.

Notes

~~13) Distinguish between the following~~

