

## B.Sc 2nd Semester (CBCS Course) General Chemistry questions

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### Department of Chemistry

Science College, Kokrajhar

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**Full marks-16**

**Please mention your Name, Roll number and Registration number.**

**Submit on Email- sarmahk11@gmail.com**

MULTIPLE CHOICE QUESTIONS:

1x16=16

- The unit of rate constant for a zero order reaction is
  - $\text{molL}^{-1}\text{s}^{-1}$
  - $\text{Lmol}^{-1}\text{s}^{-1}$
  - $\text{L}^2\text{mol}^{-2}\text{s}^{-1}$
  - $\text{s}^{-1}$
- Which one of the following statements for the order of a reaction is incorrect?
  - Order of reaction is always whole number
  - Order can be determined only experimentally
  - Order is not influenced by stoichiometric coefficients of the reactants
  - Order of reaction is sum of powers to the concentration terms of reactants to express the rate of reaction
- In terms of critical constants, the compressibility factor is-
  - 3/8
  - 8/3
  - 3/4
  - 2/3
- Which of the following is an amorphous solid?
  - Graphite
  - Quartz glass( $\text{SiO}_2$ )
  - Chrome alum
  - Silicon carbide( $\text{SiC}$ )
- Iodine molecules are held in the crystals lattice by-
  - London forces
  - Dipole-dipole interactions

## B.Sc 2nd Semester (CBCS Course) General Chemistry questions

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- C. Covalent bonds
  - D. Coulombic forces
6. Which of the following is a network solid?
- A.  $\text{SO}_2(\text{solid})$
  - B.  $\text{I}_2$
  - C. Diamond
  - D.  $\text{H}_2\text{O}(\text{ice})$
7. Graphite is a good conductor of electricity due to the presence of-
- A. Lone pair of electrons
  - B. Free valence electrons
  - C. Cations
  - D. Anions
8. The percentage of empty space in a body centered cubic arrangement is-
- A. 74
  - B. 68
  - C. 32
  - D. 26
9. What is the coordination number in a square close packed structure in two dimensions?
- A. 2
  - B. 3
  - C. 4
  - D. 6
10. Which kind of defects are introduced by doping?
- A. Dislocation defect
  - B. Schottky defect
  - C. Frenkel defect
  - D. Electronic defect
11. Silicon doped with electron- rich impurity forms-
- A. P-type semiconductor
  - B. N-type semiconductor
  - C. Intrinsic semiconductor
  - D. Insulator
12. Which of the following statements is not true?

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- A. Paramagnetic substances are weakly attracted by magnetic field
- B. Ferromagnetic substances cannot be magnetized permanently
- C. The domains in antiferromagnetic substances are oppositely oriented with respect to each other.
- D. Pairing of electrons cancels their magnetic moment in the diamagnetic substances.

13. How does the surface tension of a liquid vary with increase in temperature?

- A. Remains same
- B. Decreases
- C. Increases
- D. No regular pattern is followed

14. Which of the following property of water can be used to explain the spherical shape of rain droplets?

- A. Viscosity
- B. Surface tension
- C. Critical phenomenon
- D. Pressure

15. What is the S.I unit of viscosity coefficient?

- A. Pascal
- B.  $\text{N s m}^{-2}$
- C.  $\text{Km}^{-2}\text{s}$
- D.  $\text{Nm}^{-2}$

16. Schottky defect is observed in crystal when-

- A. Some cations move from their lattice sites to interstitial sites
- B. Equal number of cations and anions are missing from the lattice
- C. Some lattice sites are occupied by electrons
- D. Some impurity is present in the lattice.