

Class 11 Chemistry
Annual Overseas 2019 MCQs

1. Which enthalpy change is always positive?
A. Enthalpy of combustion
B. Enthalpy of neutralization
C. Enthalpy of solution
D. Enthalpy of atomization
2. The standard enthalpy of formation is zero for:
A. H₂O
B. NaCl
C. ZnO
D. N₂
3. Oxidation state of Nitrogen in Ca(NO₃)₂ is:
A. +3
B. +4
C. +5
D. +2
4. The mass of 11.2 dm³ of CO₂ enclosed in a container at STP is:
A. 22 g
B. 11 g
C. 33 g
D. 44 g
5. Which series of spectral lines is present in the visible region of electromagnetic spectrum?
A. Balmer series
B. Paschen series
C. Pfund series
D. Lyman series
6. The geometry of a molecule containing two bond pairs and one lone pair around the central atom is:
A. Trigonal planar
B. Triangular pyramid
C. Angular
D. Tetrahedral
7. According to Graham's law, the rates of diffusion of CH₄ and O₂ are in _____ ratio.
A. 1:√2
B. 2 : 1
C. √2 : 1
D. 1 : 2
8. Which gas is more ideal at STP?
A. H₂S
B. NH₃
C. H₂
D. SO₂
9. Which of the followings possesses highest boiling point?
A. HCl
B. H₂O
C. H₂S
D. HF
10. The intermolecular forces present in chloroform CHCl₃ are:
A. Dipole-dipole forces
B. London dispersion forces
C. Electrostatic forces
D. Hydrogen bonding
11. Which of the followings is NOT an anisotropic property?
A. Refractive index
B. Electrical conductivity
C. Cleavage
D. Viscosity

12. CO₂ in solid state forms:
- A. Ionic crystal
B. Molecular crystals
C. Liquid crystals
D. Covalent crystals
13. For the reaction $N_2O_2 \rightleftharpoons 2NO_2$
- A. $K_p = K_c(RT)$
B. $K_p = K_c(RT)^2$
C. $K_p = K_c(RT)^{-2}$
D. $K_p = K_c$
14. The value of K_c for the reaction $2SO_2 + O_2 \rightleftharpoons 2SO_3 + \text{Heat}$ is increased by:
Both A and B options are Correct
- A. Decreasing the temperature
B. Increasing the pressure
C. Decreasing the pressure
D. Increasing the temperature
15. Which of the following is an amphoteric oxide?
- A. MgO
B. Cr₂O₃
C. NO₂
D. Na₂O
16. When concentration of a reactant is doubled, the rate of reaction becomes half. The order of reaction with respect to that substance is:
- A. 0
B. $\frac{1}{2}$
C. -1
D. 1
17. A colloid, containing a solid dispersed in a liquid is called:
- A. Gel
B. Aerosol
C. Emulsion
D. Sol