

18. What do you understand about geometrical isomerism? Write E, Z configurations of alkene contains $-Cl$, $-Br$, $-CH_2CH_2OH$ & $-CH(CH_3)_2$

SECTION – C

III. i) Long Answer type questions

ii) Answer any TWO questions

iii) Each question carries EIGHT marks

2 × 8 = 16

19. Write the important postulates of Bohr's atomic model and explain how spectral lines are formed in the hydrogen spectrum with a neat diagram.
20. What is periodic property? Explain the following periodic trends.
- Atomic size
 - Electronegativity
 - Ionization Enthalpy
 - Electron gain Enthalpy
21. Give the molecular orbital energy diagram of N_2 and O_2 . Write the bond order and magnetic behaviour of N_2 and O_2 .