

CLASS - B. Tech. ENC/EEIOT
CHEMISTRY (BSC 102)

Time: 90 min

Max Marks: 15

All questions are compulsory

- Q.1 What do you understand by the term electronegativity? Explain the factors affecting the magnitude of Electronegativity? (2)
- Q.2 Define the terms polarizing power and polarizability? Also, discuss the fajans rule for ionic and covalent character of a bond? (2)
- Q.3 Differentiate between hard and soft acids? (2)
- Q.4 Derive the Vander wall's equation for real gas? (2)
- Q.5 Discuss the geometry and shapes of H_2O and XeF_4 ? (2)
- Q.6 Describe the synthesis of Aspirin. (2)
- Q.7 Explain Nucleophilic Substitution reactions? Differentiate between SN^1 and SN^2 . (3)