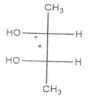
- 1. Attempt all questions.
- 2. All questions carry equal marks.
- 3. Draw neat labeled diagrams wherever necessary.
- 4. For Q2, Q3 and Q4 attempt A and BOR C and D.

Q 1 Do as directed (Any fifteen)

15

- Draw the lewis dot structure of the following: Oxygen. 1.
- Write the IUPAC name of the following: CH3-CH2-CH2-CH3-OH. 2.
- What is the number of electrons in the outermost shell of Chlorine?
- 4. What is the bond angle of BeCl,?
- The bond that is formed between two electronegative atoms is known as 5. bond.
- Define Lattice energy. 6.
- Which analytical method is based on the weight of the precipitate? 7.
- 8. Which apparatus would you use to prepare a standard solution?
- What is the endpoint? 9.
- type of titration that is also known as Neutralization titration. 10.
- is a procedure used to determine the concentration of an unknown 11. reactant in the solution.
- A _____ is a substance of precisely known concentration that is added in a 12. titration reaction.
- In _____, the analyte and the titrant react and simply combine to 13. form an insoluble precipitate.
- 14. Direct titration is also known as
- 15. Define. Isomers.
- Hexane and 3-methylpentane are examples of 16.
- Draw Eclipsed form of following molecule. 17.



- Draw cis isomer of 1,2-dichloroethene. 18.
- State true or false. In the Fischer projection formula, a broken wedge 19. indicates the bond below the plane of the paper.
- 20. Give an example of Chain Isomerism.
- Q. 2 A Elaborate in detail VSEPR theory with examples.

08

Explain in detail Covalent bonds with suitable examples. Q. 2 B

07

Q. 2 C

- 08
- Explain in detail Ionic bonds with suitable examples. Explain in detail IUPAC Nomenclature for various chemical groups. Q. 2 D
- 07

| VCD/ | FYBT SEM I SUB: PAPER III- BASIC CHEMISTRY I 75 MARKS 21 | HRS 30 MIN |
|--------------------------------------|--|----------------------|
| Q. 3 B | Explain the requirements used in titration? Explain the neutralization curve with an example. OR What are standard solutions? Explain its types. What are the steps of Gravimetric analysis? | 08 07 08 07 |
| Q. 4 A Q. 4 B Q. 4 C Q. 4 D | Differentiate between Enantiomers and Diastereoisomers. Draw Fischer projection formula and Newmann projection formula of Erythro and Threo 2,3 - Dibromobutane OR What is structural isomerism? Explain its different types with example of Erythro 3-bromo-2-butanol from Fischer's | es. 08 07 |
| Q. 5 a. b. c. d. e. | Write Short notes on any three of the following Factors governing the formation of Ionic bonds. Indicator Precipitation Different types of functional groups. Chirality | 15 |