Your answers should be specific come questions asked stranker.com

Draw neat labeled diagrams wherever necessary. Answer FOUR questions

ANSWER ANY FOUR $4 \times 25 = 100 \text{ Marks}$

- 1. a) Describe HPLC instrumentation with help of a block diagram.
 - b) Enumerate quantitative methods used in GC.
- 2. a) How do you do interpretation of IR-Spectra of organic compounds. Explain
 - b) Different sampling techniques used in IR spectroscopy.
- 3. Write notes on
 - a) Circular dicroism
 - b) Moving Boundary Elecrophoresis
 - c) HPTLC
- 4. a) Explain the principles and theoretical basis of PMR spectroscopy.
 - b) What are
 - i) Chemical shift concept
 - ii) De coupling and shift reagentsHow they are useful in deciding the chemical structure.
- 5. a) What is fragmentation. Explain different frangmentation rules and patterns in Mass spectroscopy.
 - b) Write about Fast atom bombardment Ionization technique.
- 6. a) Write Woodward's rules for calculating absorption maximum of carbonyl Compounds. Multicomponent analysis by UV Spectrophometry.

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