

- b) Answer briefly any Two of the following: [4]
- Give the characteristics of total consumption burner used in FES.
 - Write the expression for resolution in mass spectrometry peaks.
 - Give any two applications of an x-ray diffraction technique.

- Q3) Answer any Two of the following: [10]
- Describe the method of capillary isotachopheresis for separation of ions.
 - Explain the principle and working of Faraday up detector.
 - Calculate the mass absorptive coefficient of an alloy which consists of 39 percent nickel and 61 percent copper at the wavelength corresponding to K_{α} radiation of copper. The mass absorptive coefficients at that wavelength are 49.3 and 52.7 cm^2/g for nickel and copper respectively.

- Q4) a) With a neat labelled diagram, describe the technique of capillary electrophoresis. [6]

OR

- Describe with a neat labelled diagram, single crystal method of an x-ray diffraction. [6]
- Answer any one of the following: [4]
 - State the principle of neutron diffraction analysis and give its applications.
 - A powder diffraction pattern of lead was obtained with $C_{\alpha} - K_{\alpha}$ radiation ($\lambda = 1.539 \text{ \AA}$). Calculate the interplanar distance in nanometer which gives rise to a first order line at $\sin \theta = 0.9210$.



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SJ Ball



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