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SET - 1

IV B. Pharmacy I Semester Advanced Supplementary Examinations, February - 2020 PHARMACEUTICAL ANALYSIS-II Time: 3 hours Max. Marks: 70 Note: 1. Question paper consists of two parts (Part-A and Part-B) Answering the question in Part-A is Compulsory Answer any THREE Questions from Part-B PART -A a) What is molar extinction coefficient? Write its significance. (4M) b) Write a note on sample preparation for NMR analysis. (4M) c) What is the significance of Glass transition point in DTA graph? (4M) d) What is isocratic elution technique? Write its advantages and disadvantages. (4M) e) Write ideal characters of a GC detector. (3M) f) Write applications of gel electrophoresis. (3M) PART-B a) With a neat sketch explain the construction of IR spectrometer. (8M) Discuss the role of solvents on UV absorbance of a chemical compound. (8M) 3. Write in detail on principle and working of (8M) (a) Magnetic sector analyzer (b) MALD ionization (8M) a) Write a note on heat-flux DSC and their applications. (8M) b) Write principle, working and applications of XRD. (8M) a) Explain the principle and procedure involved in ELISA. (10M b) Differentiate gel chromatography and column chromatography. (6M) Write in detail on (8M) (a) Van Deemeter equation (b) Paper electrophoresis (8M) Give reasons for the following: Development Chamber needs to be saturated with solvent vapor before placing (16M) the TLC plate for elution. Finer particle size enhances resolution capacity of a stationary phase. EIMS cannot be used for peptide analysis.

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d. LCMS is used for drug metabolism studies.