GUJARAT TECHNOLOGICAL UNIVERSITY

M.PHARM- SEM-II-EXAMINATION - JULY 2012

Subject code: 2920107 Date: 06/07/2012 Subject Name: Pharmaceutical Analysis II Time: 10:30 am - 01:30 pm **Total Marks: 80 Instructions:** 1. Attempt any five questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. Q.1 (a) Discuss the principle, instrumentation and application of the GC-06 MS method used in pharmaceutical analysis. Describe and discuss: counter current chromatography (b) 05 Describe and discuss: Size exclusion chromatography 05 (c) **O.2** (a) Discuss principle and application of supercritical fluid 06 chromatographic technique for analysis and isolation. (b) Discuss the principle and applications of electrophoretic techniques 05 Write a short note on the methods of automated analysis. (c) 05 Q.3 Describe and discuss with respect to analysis of analysis of protein: 06 (a) isoelectric focusing and tryptic mapping. Write a short note on amino acid sequence analysis. 05 (b) Discuss methods of assay for anti hypertensive drugs and drugs (c) 05 acting on CV system. **06** 0.4 Discuss methods of solid state analysis of drugs. (a) Discuss principles and procedures involved in the analysis of (b) 05 sedatives and tranquilizers. Discuss principle and applications of electrophoretic techniques. 05 (c) 0.5 Discuss importance of Reporting threshold, Identification threshold 06 (a) and qualification threshold as discussed in the ICH Q3 guidelines. Discuss methods of determination of total solids in asava/aristha. (b) 05 Describe methods for the determination of iodine value in herbal (c) 05 formulations. Discuss specific sample preparation techniques from biological **Q.6** (a) 06 matrices. Discuss UV and fluorescent analysis of powdered crude drugs and (b) 05 their applications Write a note on proximate analysis of crude drugs 05 (c) **0.7** (a) Enlist and discuss different techniques and methods applied in the 06 extraction and identification of phytochemicals. Write a short note on pharmaceutical sample preparation. (b) 05 (c) 05 Discuss WHO guideline about coarseness of powder material and the sieves to be used.
