

GUJARAT TECHNOLOGICAL UNIVERSITY**B. Pharm - SEMESTER-VI- (NEW SYLLABUS) EXAMINATION – SUMMER-2015****Subject Code: 2260003****Date: 05/05/2015****Subject Name: Pharmaceutical Analysis-IV****Time: 10:30 am to 1:30 pm****Total Marks: 80****Instructions:**

- 1. Attempt any five questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

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| Q.1 | (a) | Write a note on Adsorption chromatography. | 06 |
| | (b) | Enumerate detectors of HPLC and Explain Fluorescence detector in detail. | 05 |
| | (c) | Write a brief note on turbidimetry. | 05 |
| Q.2 | (a) | Differentiate HPLC and GC. Discuss applications of HPLC. | 06 |
| | (b) | Write a Note on Applications of X ray diffraction spectroscopy. | 05 |
| | (c) | Explain methods use for measurement of radioactivity. | 05 |
| Q.3 | (a) | Discuss about GLP. | 06 |
| | (b) | List out units of radioactivity. Give application of radionuclides. | 05 |
| | (c) | Write a note on steps of filling patent. | 05 |
| Q.4 | (a) | Draw Schematic diagram of HPTLC. Give its applications. | 06 |
| | (b) | Explain requirement and interpretation of ISO 9001:2000. | 05 |
| | (c) | Explain working of PID and ECD. | 05 |
| Q.5 | (a) | Describe derivatization in GC. | 06 |
| | (b) | Explain Ion exchange chromatography. | 05 |
| | (c) | Explain in brief about GC-MS. | 05 |
| Q. 6 | (a) | Explain following terms. | 06 |
| | | 1. Retention time 2. Striping 3. GSC | |
| | | 4. Tailing 5. Radioactivity 6. TRIPS | |
| | (b) | Describe different pumps use in HPLC. | 05 |
| | (c) | Explain ELISA in detail. | 05 |
| Q.7 | (a) | Write a note on supercritical fluid chromatography. | 06 |
| | (b) | Enlist various analytical validation parameters as per ICH guideline and Explain any two. | 05 |
| | (c) | Write a note on Raman spectroscopy. | 05 |
