

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharmacy Sem-II Examination July 2010

Subject code: 920104

Subject Name: Modern Pharmaceutical Analysis

Date: 05 /07 /2010

Time: 11.00 am – 02.00 pm

Instructions:

Total Marks: 80

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

- Q.1** (a) Explain preformulation study. Give its importance. Describe thermodynamic and physicochemical properties in preformulation study. **08**
- (b) Give brief review of analytical methods used in preformulation study. **08**
- Q.2** (a) What is cosmetic? Discuss its method of analysis. **08**
- (b) Describe role of near-infrared analysis in solid dosage form analysis. **08**
- Q.3** Describe the various radiochemical methods of analysis. Discuss quality control of radiopharmaceuticals. **16**
- Q.4** What are the analytical methods used for biotechnology derived products. Discuss protein sequencing and isoelectric focusing technique. **16**
- Q.5** Describe the compendial testing of API and solid oral dosage form. **16**
- Q. 6** (a) Enlist the analytical test for parenteral preparation. Discuss bacterial endotoxin testing. **08**
- (b) Discuss automated analysis. **08**
- Q.7** Write short notes on the following (Any Two) **16**
- (a) Drug product degradation study.
- (b) Tryptic mapping
- (c) Quality control methods for medicinal plant materials as per WHO.
