

GUJARAT TECHNOLOGICAL UNIVERSITY
M. Pharm SEMESTER - II - EXAMINATION - SUMMER 2017

Subject Code: 2920103**Date: 29/05/2017****Subject Name: Pharmacometrics and Methods of Biological Evaluation of drugs****Time: 10:30 AM to 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) Enlist various methods for evaluation of NSAIDs. Discuss any two in brief. **06**
- (b) Explain acute, subacute and chronic toxicity. Write in brief about OECD 423 test. **05**
- (c) Describe methods for testing Carcinogenicity. **05**
- Q.2** (a) What are the sources and properties of Pyrogens in pharmaceutical products? Discuss LAL test in brief. **06**
- (b) Write a note on the safety assessment of pharmaceutical packaging material. **05**
- (c) Describe the various methods for Bioassay with examples. **05**
- Q.3** (a) Enlist the models for inflammatory bowel disease. Discuss TNBS induced colitis model. **06**
- (b) Explain the official methods for Microbiological Assay of antibiotics. **05**
- (c) Discuss in brief the different methods for bioassay of Insulin. **05**
- Q.4** (a) Discuss in brief the evaluation of Local anesthetics. **06**
- (b) How will you screen Opioid analgesics? **05**
- (c) Enumerate various models for glaucoma. Discuss any one in detail. **05**
- Q.5** (a) What are the various models for evaluation of Antipsychotics? Discuss the cook's pole climbing experiment in detail. **06**
- (b) Enlist the different models for evaluation of Peptic ulcer. Describe any one in detail. **05**
- (c) Enumerate different models for screening of Antidepressants. Discuss Porsolt's swim test. **05**
- Q.6** (a) Write a note on evaluation of Sympatholytics. **06**
- (b) How will you evaluate skeletal muscle relaxants? **05**
- (c) Discuss use of Freund's adjuvant in biological screening? **05**
- Q.7** (a) What are the different models for study of Insulin resistance? Describe any one in detail. **06**
- (b) Describe the models for stress induced hypertension. **05**
- (c) Describe the use of 6-Hydroxydopamine and MPTP in screening of antiparkinson drugs. **05**