

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharmacy Sem-II Remedial Examination December 2010

Subject code: 920103

Subject Name: Pharmacometrics and Methods of biological evaluation of drugs

Date: 18 /12 /2010

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) How will you find out possible mechanisms of action of a drug that is antihypertensive? **06**
(b) Write a note on 'official tests for pyrogens'. **05**
(c) Enlist various methods for screening of Anti-inflammatory agents. **05**
Write in brief about Radiant heat method.
- Q.2** (a) How will you evaluate local anesthetic agents? **06**
(b) Describe '1-methyl-4-phenyl-1,2,3,6- tetrahydropyridine' in the light of screening of drugs **05**
(c) Describe various methods for induction of dyslipidemia **05**
- Q.3** (a) Describe methods for evaluation of drugs used in type II diabetes **06**
(b) Describe following agents in the light of screening of drugs: **05**
a) Haloperidol b) Aconitine
(c) Discuss microbiological assays for vitamins **05**
- Q.4** (a) Write in brief about *in vivo* methods for evaluation of Antiasthmatics **06**
(b) Discuss application of potentiation of hexobarbital sleeping time **05**
(c) Give details of teratogenic testing as per regulatory guidelines. **05**
- Q.5** (a) Describe various methods for evaluation of cytoprotective activity for drugs used in peptic ulcer **06**
(b) Describe Saluretic activity in rats. **05**
(c) What is 'Serotonin syndrome in rats'? Give its application. **05**
- Q. 6** (a) Enlist various target based model for screening of anti convulsant activity. Discuss any one in detail. **06**
(b) Write a note on Alpha-chymotrypsin induced glaucoma model **05**
(c) Describe working and application of Cook's pole climbing apparatus **05**
- Q.7** (a) Describe methods to differentiate ganglion blocker and adrenergic neuron blockers **06**
(b) Enumerate isolated tissue preparations for the evaluation of Adrenocept or subtype. **05**
(c) Write a note on bioassay of Digitalis. **05**
