

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-IV • EXAMINATION – WINTER 2013****Subject Code: 143601****Date: 26-12-2013****Subject Name: Medicinal Chemistry & Physiopharmacology****Time: 02:30 pm to 05:00 pm****Total Marks: 70****Instructions:**

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

- Q.1** (a) Comment on the structure-activity relationship of barbiturate drugs **07**
(b) Draw the structure of Nephron and label its parts. **07**
- Q.2** (a) What is anemia? Explain the importance of iron in body? **07**
(b) Explain the different phases in coagulation? Give the structure, mechanism and metabolism of any one anticoagulant. **07**
- OR**
- (b) Which are the conditions that lead to constipation? Write a note on laxatives. **07**
- Q.3** (a) Explain the process of digestion? Write a note on antacids. **07**
(b) Write the MOA and SOA of five diuretic drugs **07**
- OR**
- Q.3** (a) Write a note on respiratory system. **07**
(b) Write the MOA and SOA of five diuretic drugs **07**
- Q.4** (a) Write the mechanism of action of the following drugs: **07**
(i) Cimitidine
(ii) Esomeprazole
(iii) Oxytocin
(iv) Gliclazide
(v) Acetazolamide
(b) Write a note on histamines. **07**
- OR**
- Q.4** (a) Explain Local Anesthetics in detail. **07**
(b) Classify hypnotics. Write a note on Barbiturates. **07**
- Q.5** (a) Which are the types of Diabetes Mellitus. Explain the action and mechanism of Insulin release. **07**
(b) Define Chemotherapy. Explain the drugs used in Cancer Therapy? **07**
- OR**
- Q.5** (a) Write a note on Antihypertensive agents. **07**
(b) Write a note on Antiseizure drugs. **07**
