

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph SEM-VII Examination-Nov/Dec.-2011

Subject code: 270006

Date: 01/12/2011

Subject Name: Pharmacology-III

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) Classify anti cancer agents and describe the role of anti metabolites as anti cancer agents **06**
 - (b) Write a short note on – Expectorants **05**
 - (c) Describe in detail various drugs used as laxatives **05**
- Q.2**
- (a) Classify anti tubercular (anti TB) drugs. Give mechanism of action and adverse effects of Isoniazid. Explain “DOTS” therapy. **06**
 - (b) Give mechanism of action of Penicillin and discuss its adverse effects and therapeutic uses. **05**
 - (c) Write a short note on – Oral Contraceptives **05**
- Q.3**
- (a) Justify the use of – **06**
 - (i) Omeprazole in peptic ulcer
 - (ii) Domperidone in vomiting
 - (iii) Corticosteroids in TB
 - (iv) DSCG in bronchial asthma
 - (v) Sulphasalazine in ulcerative colitis
 - (vi) Methenamine mandelate in treatment of UTI
 - (b) Write a short note on – Bacterial resistance **05**
 - (c) Classify anti thyroid drugs and discuss their mechanism of action **05**
- Q.4**
- (a) Give reasons for difficulty in treatment of viral infections. Show diagrammatically the replication cycle of virus with sites of action of anti viral agents. **06**
 - (b) Explain the following adverse effects and name the anti microbial agent producing them – **05**
 - (i) Fanconi like syndrome
 - (ii) Black water fever
 - (iii) Gray baby syndrome
 - (iv) Ototoxicity
 - (v) Crystalluria
 - (c) Write a short note on metronidazole and its derivatives **05**

- Q.5** (a) Explain physiological actions of insulin and give the adverse effects produced by use of insulin preparations **06**
- (b) Give mechanism of action of following drugs – **05**
- (i) Cotrimoxazole
 - (ii) Sulphonylureas
 - (iii) Primaquine
 - (iv) Chloramphenicol
 - (v) Tetracycline
- (c) Write a short note on – Immunosuppressants **05**
- Q. 6** (a) Describe the physiological actions of nitric oxide (NO) **06**
- (b) Define the following terms – **05**
- (i) Super infection
 - (ii) Chemotherapy
 - (iii) Tocolytic agents
 - (iv) Synergism
 - (v) Radical Curative drug (in reference to malaria)
- (c) Classify oral hypoglycemic agents and differentiate between Sulphonylureas and Biguanides **05**
- Q.7** (a) Explain the mechanism of anti malarial action, adverse effects and therapeutic uses of chloroquine **06**
- (b) Explain how Dapsone and Clofazimine act as anti leprotic drugs. Explain what is lepra reaction **05**
- (c) Write a short note on – Cephalosporins **05**
