

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**D. Pharm. – SEMESTER – II • EXAMINATION – WINTER • 2014**

**Subject Code: 420003****Date: 26-12-2014****Subject Name: Pharmacology and Toxicology****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** Give reasons for the following questions: (Any EIGHT) **16**
1. Xanthine derivatives are used in the treatment of Asthama.
  2. Vigabetrine is used in CNS disorder.
  3. Amoxycillin can be given in combination with Clavulanic acid.
  4. Cefuroxime is used in unknown Meningitis.
  5. Macrolide class of antibiotics is drug of choice in URTI.
  6. Digoxin produces diuresis.
  7. Ondencetron is used in the treatment of vomiting induced by radiation.
  8. Nitrites are useful in the treatment of Angina.
  9. Histamine is useful in diagnosis of Leprosy.
  10. Pyridoxine is combined with isoniazid therapy.
  11. Ibuprofen induces Ulceration.
  12. Reserpine may cause Parkinsonism on long term use.
- Q.2** Write short notes on followings : ( Any THREE ) **16**
1. 5-Hydroxytryptamine
  2. Anti viral agents
  3. Cephalosporins
  4. Narcotic analgesics
- Q.3** (a) Explain in detail about Bio synthesis of Acetyl choline. **06**  
(b) Organophosphorous compounds poisoning & its treatment. **05**  
(c) Write a note on Adrenergic receptor blockers. **05**
- Q.4** (a) Enumerate Respiratory disorders. Discuss pathogenesis of Asthma. **10**  
(b) Describe in detail about treatment of Asthma. **06**
- Q.5** (a) Define and classify Hypertension. Describe Pathogenesis of it. **08**  
(b) Write Mechanism of action of Any one Anti hypertensive agents from each Class. **08**
- Q. 6** (a) Write a note on treatment of Type-I diabetes. **06**  
(b) Thyroid disorders and its treatment. **05**  
(c) Write a note on Anti Epileptic drugs **05**
- Q.7** (a) Explain Neoplastic cell cycle **04**  
(b) CCF and its treatment. **06**  
(c) Describe factors affecting Bioavailability and action of drugs. **06**

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