

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 7 EXAMINATION – SUMMER -2019

Subject Code: 270006

Date: 20-05-2019

Subject Name: Pharmacology-III

Time: 02:30 PM TO 05:30 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) Define and classify chemotherapeutic agents according to mechanism of action and based on spectrum. **06**
- (b) Classify sulfonamides. Write mechanism of action, antibacterial spectrum of sulfamethoxazole. **05**
- (c) Discuss the detail pharmacology of Penicillin – G. **05**
- Q.2** (a) Classify anti-viral agents. Discuss the mechanism of action and antibacterial spectrum and uses of antiretroviral agents. **06**
- (b) Explain the mechanism of action, mechanism of resistance and specific adverse effects of streptomycin. **05**
- (c) Classify antimalarial drugs and discuss mechanism of action and adverse effect of quinidine. **05**
- Q.3** (a) Classify antineoplastic agents and write a note on methotrexate. **06**
- (b) Explain the detail pharmacology of isoniazid as an antitubercular drug. **05**
- (c) Classify the antifungal agents and discuss the pharmacology of fluconazole in brief. **05**
- Q.4** (a) Classify oral hypoglycemic agents. Explain the mechanism of action, pharmacokinetic and adverse effect of Biguanides class of drug. **06**
- (b) Write a note on gonadotropins. **05**
- (c) Discuss the biosynthesis, storage, metabolism and regulation of thyroid hormone. **05**
- Q.5** (a) Explain the mechanism of action, pharmacological actions, adverse effect and uses of glucocorticoids. **06**
- (b) Write a note on oral contraceptives. **05**
- (c) Explain oxytocic in brief. **05**
- Q. 6** (a) Classify anti-asthmatics drugs. Explain mechanism of action, pharmacological action of methyl xanthines derivatives. **06**
- (b) Discuss proton pump inhibitors in brief. **05**
- (c) Explain the oral rehydration salt in detail. **05**
- Q.7** (a) Classify immunosuppressant drugs and explain any one drug in detail. **06**
- (b) Explain the biosynthesis and physiological actions of nitric oxide. **05**
- (c) Define following terminologies: **05**
- i) Chemotherapeutic index. ii) Antibiotics iii) Laxative
- iv) Purgative v) Bacteriostatic
