

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. – SEMESTER – I • EXAMINATION – SUMMER • 2014

Subject Code: 910203

Date: 26-05-0214

Subject Name: Advances in Pharmacology

Time: 02:30 pm - 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.**

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|-------------|-----|--|-----------|
| Q.1 | (a) | What is tumor? Differentiate benign tumor and cancer. Enlist the remedies for preventing side effects of cancer chemotherapy and radiation therapy. | 06 |
| | (b) | Discuss adverse effects and therapeutic uses of adrenoceptor antagonists. | 05 |
| | (c) | Explain mechanisms for the therapeutic and adverse effects of chloramphenicol. | 05 |
| Q.2 | (a) | Explain the pharmacological actions of sympathomimetics with respect to each organ and therapeutic uses | 06 |
| | (b) | What is HAART? Write pharmacology of efavirenz. | 05 |
| | (c) | Describe life cycle of plasmodium falciparum with respect to antimalarial agents. | 05 |
| Q.3 | (a) | Write in detail on immune system suppressing intracellular targets. | 06 |
| | (b) | What is ganglion? Classify the drugs acting on ganglion. Enlist their therapeutic uses. | 05 |
| | (c) | Discuss therapeutic uses and adverse effects of fluoroquinolones. | 05 |
| Q.4 | (a) | Enlist broad spectrum antifungal agents. Write pharmacology of any one of them. | 06 |
| | (b) | Write in brief on correlation between physiochemical properties and therapeutic uses with respect to parasympatholytics. | 05 |
| | (c) | Classify cephalosporins. Write the difference among them according to pharmacokinetic properties and therapeutic uses. | 05 |
| Q.5 | (a) | What is eicosanoids? Classify them. Write pharmacology of lipoxin. | 06 |
| | (b) | Classify the agents acting on cholinergic receptors present in CNS. Discuss their pharmacological and therapeutic role. | 05 |
| | (c) | Write a note on DOTS therapy. | 05 |
| Q. 6 | (a) | Discuss diagnostic and therapeutic importance of neuromuscular blockers. | 06 |
| | (b) | Differentiate each type of serotonin receptor and enlist selective agonists and antagonists of them. | 05 |
| | (c) | Enlist the synergistic combination of chemotherapeutic agents. Write a note on co-trimoxazole. | 05 |
| Q.7 | (a) | Write pharmacology of histamine receptor antagonists. | 06 |
| | (b) | Define immunostimulants. Classify them. Discuss therapeutic and experimental applications of levamisole | 05 |
| | (c) | The target specificity of chemotherapeutic agents is prominent factors for management of infectious disease with respect to virus, bacteria, fungi, protozoa and helminth,Comment. | 05 |
