

# UKA TARSADIA UNIVERSITY

M. Pharm. (Pharmacology) (1st Semester)

Subject: 040050103 - Advances in Pharmacology

Time : 10:00 am to 1:00 pm

Date : 26/12/2013

Duration: 3 Hours

Max. Marks: 70.

## Instructions:

1. Attempt all questions.
2. Write each section in a separate answer book.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks allocated to that question.
5. Draw diagrams/figures whenever necessary.

## Section 1

**Q-1 a)** Describe the organophosphorous poisoning and its treatment. (5)

**Or**

- a) Write short note on  $\alpha$  – antagonist. (6)
- b) Justify therapeutic uses of parasympatholytics. (6)

**Q-2 a)** Classify immunosuppressants. Describe the mechanism of action of any two classes. (6)

**Or**

- a) Drug treatment of glaucoma. (6)
- b) Classify the sympathomimetics. Write the pharmacological action of epinephrine. (6)

**Q-3 Answer the following questions. (any two)** (12)

- a) Classify neuromuscular blockers. Describe the mechanism of action of succinylcholine.
- b) Classify and describe the mechanism of action of local anesthetics.
- c) Justify therapeutic uses of  $\beta$  – blockers in various cardiovascular diseases.

## Section 2

**Q-4 a)** Describe the bacterial resistance to antibiotics. (5)

**Or**

- a) Write short note on quinolones. (5)
- b) Describe the role of hormones in cancer therapy. (6)

**Q-5 a)** Classify the antimalarial drugs. Write short note on quinine. (6)

**Or**

- a) Describe the mechanism of action, therapeutic uses and adverse drugs reactions of Co-trimaxazole. (6)
- b) Describe the mechanism of action, therapeutic uses and adverse drugs reactions of tetracyclines. (6)

**Q-6 Answer the following questions. (any two)** (12)

- a) Write short note on WHO guideline for the treatment of TB.
- b) Classify anti-HIV drugs. Describe mechanism of action, therapeutic uses and adverse effects of zydovudine.
- c) Describe adverse effects of chemotherapeutic agents used in cancer treatment.