Total No. of Questions :5] *[Total No. of Printed Pages : 2*

Roll No .....

PY-405

B.Pharmacy IV Semester

Examination, December 2016

Pharmacology - I

Time : Three Hours

Maximum Marks : 70

Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

ii) All parts of each question are to be attempted at one place.

iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.

iv) Except numericals, Derivation, Design and Drawing etc.

1. a) Explain post marketing surveillance with its significance in clinical trial.
   b) Give advantages and disadvantages of oral route of drug administration.
   c) Differentiate microsomal and nonmicrosomal metabolism.
   d) Explain various factors affecting absorption.

   OR

   Describe general treatment for poisoning.

2. a) Write therapeutic uses of atropine.
   b) Explain combined effect of drugs.
   c) Explain mechanism of action and adverse effects of lignocaine.
   d) Classify anticholinesterase drugs. Write pharmacological actions and therapeutic uses of them.

OR

Define bioassay. Explain principle, advantages and disadvantages of bioassay.

3. a) Give pathophysiological role of platelet activating factor.
   b) Write mechanism of action of aspirin for anticoagulant effect.
   c) Enumerate the β-blockers. Discuss therapeutic uses of β-blockers.
   d) Explain in detail pathophysiological role of histamine. Enlist H_2 receptor blockers.

   OR

   Classify 5-HT agonists and antagonists with their therapeutic uses.

4. a) Define and classify expectorants.
   b) Write therapeutic uses of adrenaline.
   c) Explain biosynthesis of prostaglandins and leukotrienes.
   d) Classify Nonsteroidal anti-inflammatory drugs. Write mechanism of action of diclofenac.

   OR

   Write mechanism of action, adverse effects and therapeutic uses of probenecid.

5. a) Classify neuromuscular blocking agents.
   b) Write mechanism of action of antitussive agents.
   c) Explain various principles of drug action.
   d) Classify anti-asthmatic drugs. Write mechanism of action of salbutamol.

   OR

   Describe mechanism of action, adverse effects and therapeutic uses of theophylline.

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