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

Roll No .....

PY-703

B.Pharm. VII Semester

Examination, December 2016

Pharmaceutical Chemistry - VIII

Medicinal Chemistry - III

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) Write the synthesis of chlorothiazide.
   b) Write synthesis of Diltiazem.
   c) Give classification and mode of action of anti-anginal drugs.
   d) Give classification and mode of action of Diuretics. Add a note on Carbonic Anhydrase Inhibitors.

   OR

   Describe the classification and mode of action of antihypertensive drugs. Add a note on calcium channel blockers.

2. a) What are oxytocic agents?
   b) Give synthesis of captopril.

   c) Describe the SAR of ACE Inhibitors.
   d) Describe the classification and mode of action of Antiviral agents.

   OR

   Describe the classification and mode of action of anti-metabolites.

3. a) What are anthelmintics?
   b) Draw the chemical structure with chemical name of any two anthelmintics.
   c) Write a note on cardiac glycosides.
   d) Discuss the classification and SAR of antimaterials.

   OR

   Discuss the classification and SAR of antituberulars.

4. a) Write the chemical structure and IUPAC name of tetracycline and chloramphenicol.
   b) What are macrolides?
   c) Give an account on antihyperlipidemics.
   d) Give classification, mode of action and SAR of anti-fungal agents.

   OR

   Classify antineoplastics. Write their mode of action and SAR.

5. a) What is arrhythmia?
   b) Write the chemical structure and IUPAC name of any two anti arrhythmic drugs.
   c) Discuss in brief about aminoglycosides.
   d) Give an account on β-lactam antibiotics.

   OR

   Give an account on immuno-suppressive agents.

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