

Roll No.

Total No. of Pages : 02

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B.Pharma (2011 to 2016) (Sem.-8)
PHARMACEUTICAL CHEMISTRY – VIII
(MEDICINAL CHEMISTRY – III)
Subject Code : BPHM-805
M.Code : 72300

Time : 3 Hrs.

Max. Marks : 80

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.

SECTION-A

1. I. Give structure, IUPAC name and one specific use of following drugs :

- a. Isoniazid
- b. Methicillin.
- c. Proguanil
- d. Ornidazole
- e. Mebendazole
- f. Fluconazole
- g. Abacavir
- h. Docetaxel
- i. Temoxifen
- j. Methimazole

II. Attempt the following :

- a. What is biotransformation?
- b. Draw structures of two drugs that undergoes sulphonation by glutathione-S-transferase?
- c. What are meglitinides?
- d. Draw structures of T4 and T3 thyroid hormones?
- e. Draw the structures of two aminopyrimidine derivatives used in combination therapy with sulphonamide.

SECTION-B

2. Discuss SAR of 4-aminoquinolines for anti-malarial activity.
3. What are anthelmintics? Give synthesis of Nicolsamide.
4. Draw structures of imidazole derivatives used for treatment of fungal infection. Give synthesis of **any one** of them.
5. Give an account of antithyroid drugs.
6. Give structures and mechanism of action of purine analogues used as antiviral agents.

SECTION-C

7. Describe various types of reactions involved in phase I of drug metabolism citing suitable example of each.
8.
 - a) Discuss the SAR of thyroid hormones.
 - b) Discuss structure of insulin.
9. Classify antineoplastic drugs with two structural examples of each class. Give synthesis of chlorambucil.
10. What are (β-lactam antibiotics? Describe various classes of penicillins.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.