Roll No. | | | | | | | | | | | | |

Total No. of Pages : 02

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B.Pharma (2012 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. **Answer briefly :**

   a. Labelled structure of Cephalosporins.

   b. Name two synthetic progesterone.

   c. Give any two structures of drugs used as antifungal.

   d. Brief out the mechanism of action of Vinca alkaloids.

   e. Oral hypoglycemic agents.

   f. Sketch the structure and medicinal uses of Thiabendazole.

   g. Name two semisynthetic cephalosporin derivatives.

   h. Name and mechanism of antithyroid drug.

   i. Antifliral agents.

   j. Give full form and use of T4.

   k. Mode of action of quinolone antibacterials.

l. Define transcription and Translation.

m. What is term diagnostic agents, give example?

n. What do you mean by pharmaceutical aids?

o. Explain reductive example giving suitable example.

SECTION-B

2. Write the structure, synthesis and uses of Primaquine.

3. Give detailed classification of antibacterial drugs with examples.

4. Illustrate the structure, synthesis, and uses of Isoniazid.

5. What is fungal infection? Add a note on imidazole antifungals.

6. Give a diagrammatic presentation showing biosynthesis and secretion of Insulin.

SECTION-C

7. Give a detailed account on Diagnostic agents.

8. Elaborate the medicinal chemistry aspects of anti-malarials with emphasis on history, chemical classification with examples, mechanism of action of each class and synthesis of any two drugs

9. Discuss the various types of Phase-I biotransformation pathways and the role of Cytochrome P450 enzyme system in Phase-I biotransformation

10. Write structure, IUPAC name, synthesis and mechanism of action of the following :

    a. Metronidazole

    b. p-aminosalicyclic acid

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.