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Total No. of Pages : 02

Total No. of Questions : 10

B.Pharmacy (Sem.-8)

MEDICINAL CHEMISTRY/PHARMACEUTICAL CHEMISTRY-VIII**(MEDICINAL CHEMISTRY-III)/****PHARMACEUTICAL CHEMISTRY-VII**

Subject Code : PHM-483

M.Code : 46242

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. Write short notes on :**

- a) What is aromatic hydroxylation?
- b) Give MOA of β -lactam antibiotics.
- c) Draw structure and give IUPAC name of ofloxacin.
- d) Draw structure and give medicinal uses of primaquine.
- e) What are NNRTIs?
- f) Draw structure and give chemical name of diloxanide furoate.
- g) What are applications of iodine as radiopharmaceuticals?
- h) Define Radiological Contrast Agents.
- i) Give MOA of alkylating agents.
- j) Give synthesis of tamoxifen.



- k) What are anthelmintics?
- l) What is vincristine?
- m) What are thyroid hormones?
- n) Give name of any two drugs bio-transformed by acetylation.
- o) Give synthesis of clotrimazole.

SECTION-B

2. Classify conjugation reactions of phase II drug metabolism citing one example of each.
3. Classify sulphonamide antibacterial. Comment on their general MOA.
4. Discuss SAR of 8-aminoquinolines as antimalarial agents.
5. Give synthesis, MOA and important uses of metronidazole.
6. Give the synthesis, chemical name and important uses of isoniazid.

SECTION-C

7. What are oral hypoglycemic agents? Discuss SAR of sulphonyl ureas for oral hypoglycemic activity.
8. Describe various structural classes of antifungal agents with suitable example of each class. Give synthesis of ketoconazole.
9. Give detailed account of various natural products used as anticancer agents.
10. Write a note on :
 - a) Antifilarial agents.
 - b) SAR of cephalosporins.

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC case against the Student.