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Total No. of Pages : 02

Total No. of Questions : 13

B.Pharmacy (Sem.-6)
MEDICINAL CHEMISTRY-III-THEORY

Subject Code : BP-601T

M.Code : 77986

Date of Examination : 05-01-23

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

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

SECTION-A

1. Write briefly :

- a) Give chemical structure and uses of acid resistant penicillin.
- b) Write chemical structure and biological target of Clavulanic acid.
- c) Write name and chemical structure of beta-lactamase resistant penicillin.
- d) Write synthesis of Chloramphenicol.
- e) Mention the electronic parameters used in QSAR.
- f) Write the structure and uses of Niclosamide.
- g) Write chemical structure and uses of Dapsone.
- h) Give the synthesis of Isoniazid.
- i) Draw structure and give mechanism of Rifampin.
- j) Write the structure and uses of Clindamycin.

SECTION-B

2. What are aminoglycosides antibiotics? Write mode of action, structure, uses of streptomycin.
3. What are anti-protozoal agents? Give the structures of Iodoquinol and Metronidazole.
4. Write detailed note on HIV protease inhibitors by giving suitable examples.

SECTION-C

5. Explain prodrug concept and combinational chemistry in drug discovery.
6. Write the SAR of sulpha drugs. Write the synthesis of Trimethoprim.
7. What are Antifungal drugs? Discuss in detail Clotrimazole and Ketoconazole.
8. Define and classify penicillins? Write the degradation products of penicillin.
9. Write SAR of quinolones? Write synthesis of Chloroquine.
10. Write SAR of Tetracyclins. Mention therapeutic uses, mode of action of Chlorteracyclin.
11. Classify the Anthelmintics. Write the structure and uses of Mebendazole.
12. Define Macrolides? Give structure, mode of action and medicinal uses of azithromycin.
13. Define and classify Cephalosporins. Write the structures of cephalexin and cephalothin.

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