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Total No. of Pages : 01

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M.Sc. (Pharmaceutical Chemistry) (Sem.-3)

CHEMISTRY OF DRUGS – II

Subject Code : MSPC-201

M.Code : 20509

Time : 3 Hrs.

Max. Marks : 80

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries SIXTEEN marks.

1. a) Classify antibiotics on the basis of their basic chemical structures. Give the structure of 2-amino penicillin and synthesis of **any one** of them,
b) Give the structure of **any four** third generation cephalosporins. Describe the favorable structural requirements of 7-acyl amino substitution for antibacterial activity of these derivatives.
2. a) Describe the SAR of aminoglycoside antibiotics.
b) Write short note on semisynthetic tetracyclines.
3. Classify antitubercular drugs with suitable example of each class. Describe the synthesis and mode of action of isoniazid.
4. a) What are antileprotic agents? Give structures and chemical name of **any two** antileprotic agents.
b) Write a short note on antibiotics used in tuberculosis.
5. What are anthelmintics? Describe the structures of four benzimidazole derivatives used for the treatment of GIT nematodes. Describe synthesis of **any two** of them.
6. Write the synthesis and important medicinal use of following :
a) Niclosamide
b) Pyrantel pamoate
c) Thiabendazole
d) Niridazole
7. Draw the structure, give the chemical name, synthesis and mode of action of metronidazole and diloxanide furoate.
8. What are systematic amoebicidal? Give mode of action and synthesis of **any two** of them.

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.