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Printed Pages: 02 **Sub Code: BOP471**

Paper ID: | 5 | 0 | 5 | 2 | **Roll No.** | | | | | | | | | | |

B.PHARM
(SEM-VII) THEORY EXAMINATION 2017-18
PHARMACEUTICAL CHEMISTRY-VIII
(MEDICINAL CHEMISTRY-III)

Time: 3Hours ***Max. Marks: 100***

Note: Attempt all Sections. Assume missing data, if any.

SECTION A

1. Attempt *all* questions in brief: 10x2 = 20

a. What are steroidal drugs?
b. What are beta lactam antibiotics?
c. Classify Anti-HIV drugs.
d. Give synthesis of any two alkylating agents.
e. What is the role of sulfamoyl group in sulfonamides?
f. Write a full form of NRTI and NNRTI.
g. Give the synthesis of one sulphonamide drug.
h. Discuss a mechanism of action of fluroquinolones.
i. Differentiate between Anabolic and sex steroids.
j. Write a use of Antiseptics and Disinfectants.

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SECTION B

2. Attempt any *three* of the following: 10 x 3 = 30

a. Write a note on nomenclature and stereochemistry of steroids.
b. What are Anti-cancer drugs? Write a note on chemotherapy of cancer.
c. Discuss a detail description of SAR of Tetracyclines.
d. Write the synthesis and mode of action of sulphacetamide and nalidixic acid.
e. Give the synthesis and mode of action of any four drug from the following.

1) Sulphamethoxazole	2) Sulfadiazine	3) Ofloxacin
4) PAS	5) Dapsone	6) Ethambutol

SECTION C

3. Attempt all part of the following: 5 x 2 = 10

a. What are Adrenocorticoids? Explain their mode of action with example.
b. Give the chemical name, synthesis and uses of Estradiol and Prednisolone.

4. Attempt any *one* part of the following: 10 x 1 = 10

a. What are Cephalosporins? Classify them and discuss their SAR.
b. Give the chemical name, synthesis and uses of Doxycycline and Clotrimazole.

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5. Attempt any *one* part of the following: 10 x 1 = 10

a. Write a short note on Antibacterial agents. Give the synthesis of Isoniazid.
b. What are Quinolones? And discuss the development of fluoroquinolones.

6. Attempt any *one* part of the following: 10 x 1 = 10

a. What are Anti malarial Drugs? Discuss the role of Artemisia as Anti malarial.
b. Give the synthesis and uses of Primaquine and Albandazole.

7. Attempt *all* part of the following: 5 x 2 = 10

a. Give the synthesis and mode of action of Diloxanide and Pyrimethamine.
b. Give the synthesis and uses of Methotrexate and Carmustine.

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