Sub Code:BOP471

Paper Id: 150701 Roll No:

B. PHARM
(SEM VII) THEORY EXAMINATION 2019-20
PHARMACEUTICAL CHEMISTRY – VII (MEDICINAL CHEMISTRY – III)

Time: 3 Hours ***Total Marks: 100***

Note: Attempt all Sections.

SECTION A

1. Attempt *all* questions in brief. 2 x 10 = 20

a. Differentiate Antiseptics and Disinfectants.
b. Draw the structure of Testosterone.
c. Name the natural agents used in the treatment of Cancer.
d. What is PAS? Draw its structure.
e. Introduce Sulphonamides with two examples.
f. Write the source and structure of Penicillin.
g. What are mineralocorticoids?
h. What is HIV? Name any two drugs used for the treatment of HIV.
i. Define Semi-synthetic Penicillins.
j. What are Antifungal drugs? Give any two examples.

SECTION B

2. Attempt any *three* of the following: 10x3=30

a. Discuss the Structure Activity Relationship (SAR) of Tetracycline.
b. Draw the structure of following drugs and give their I.U.P.A.C. Name-
   I. Dapsone
   II. Carmustine
   III. 5-Fluorouracil
   IV. Sulphacetamide
   V. Estradiol
c. Write the Synthesis of Chloroquine and Methotrexate.
d. Write the mode of action and Structure Activity Relationship of Chloramphenicol.
e. Explain Quinolones. Discuss the development of fluoroquinolones.

SECTION C

3. Attempt any *one* part of the following: 10x1=10

a. Write the nomenclature and stereochemistry of Steroids.
b. Write the Chemical Structure, Synthesis and Uses of Zydovudine.

4. Attempt any *one* part of the following: 10x1=10

a. What are Alkylating agents? Write the Structure Activity Relationship (SAR) of alkylating agents.
b. Write the synthesis and mode of action of Clotrimazole.

5. Attempt any *one* part of the following: 10x1=10

a. Classify Anti-HIV agents. Write about its Structure Activity Relationship.
b. What are Cephalosporins? Write the history of Cephalosporins.

6. Attempt any *one* part of the following: 10x1=10

a. What are Anticancer antibiotics? Write the synthesis of Doxorubicin.
b. Write the synthesis and uses of Diloxanide and Acyclovir.

7. Attempt any *one* part of the following: 10x1=10

a. Define Antimalarial drugs. Classify them. Write the synthesis of Pyrimethamine.
b. Write the synthesis and mode of action of Albendazole.

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