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Printed Pages:1 **Sub Code: PHARM 361**

Paper Id: | 1 | 5 | 0 | 6 | 2 | 1 | **Roll No.** | | | | | | | | | | |

B PHARM

(SEM-VI) THEORY EXAMINATION 2017-18

MEDICINAL CHEMISTRY-II

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

Note: 1. Attempt all Sections. Assume missing data suitably, if any.

SECTION A

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

a. What is pharmacophore?
b. Write about Taft's equation.
c. What is RAS?
d. Give the structure and mechanism of action of Lovastatin.
e. Give the mechanism of action and structure of spironolactone.
f. What are anticancer agents? Give the mechanism of action of 5-flourouracil.
g. Give the synthesis and mechanism of action of isosorbide dinitrate.
h. Give the synthesis of furosemide.
i. What is COMFA?
j. Give the mode of action and uses of Propranolol.

SECTION B

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

a. What is drug design? Write in detail about analogue based and structure based drug design.
b. What are antiarrythemic drugs? Classify with suitable examples. Give the mechanism of action of uses and synthesis of procainamide and atenolol.
c. Define diuretics? Classify with suitable examples. Give SAR and synthesis of acetazolamide and chlorthiazide.
d. Classify anticancer drugs. Explain in detail about alkylating agents.
e. Discuss any four applications of furosemide.

SECTION C

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

(a) What are antibacterial agents? Classify with suitable examples. Write the synthesis MOA and uses of sulphamethoxazole.
(b) What are NSAIDS? Write the SAR of Aryl carboxylic acids and give the MOA uses and synthesis of Ibuprofen.

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

(a) Explain SAR of 6-mercaptopurines. Give MOA uses and synthesis of methotrexate.
(b) What are antihyperlepidimics? Give SAR, MOA and uses of Lovastatins.

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

(a) What antihypertensive drugs? Explain MOA, SAR and uses of ACE inhibitors.
(b) What are anticoagulants? Give SAR, MOA, uses and synthesis of Warfarin.

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

(a) Give synthesis mechanism of action synthesis and uses of:
i) Carmustine ii) Nifedipine
(b) Write synthesis mechanism of action uses and synthesis of Diclofenac and Paracetamol.

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

(a) Write a note on computer aided drug design.
(b) What is QSAR? Explain in detail.

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