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Paper Id:

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Sub Code: PHARM 361

Roll No.

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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
- What is pharmacophore?
 - Write about Taft's equation.
 - What is RAS?
 - Give the structure and mechanism of action of Lovastatin.
 - Give the mechanism of action and structure of spironolactone.
 - What are anticancer agents? Give the mechanism of action of 5-fluorouracil.
 - Give the synthesis and mechanism of action of isosorbide dinitrate.
 - Give the synthesis of furosemide.
 - What is COMFA?
 - Give the mode of action and uses of Propranolol.

SECTION B

2. Attempt any *three* of the following: 10 x 3 = 30
- What is drug design? Write in detail about analogue based and structure based drug design.
 - What are antiarrhythmic drugs? Classify with suitable examples. Give the mechanism of action of uses and synthesis of procainamide and atenolol.
 - Define diuretics? Classify with suitable examples. Give SAR and synthesis of acetazolamide and chlorthiazide.
 - Classify anticancer drugs. Explain in detail about alkylating agents.
 - Discuss any four applications of furosemide.

SECTION C

3. Attempt any *one* part of the following: 10 x 1 = 10
- What are antibacterial agents? Classify with suitable examples. Write the synthesis MOA and uses of sulphamethoxazole.
 - 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
- Explain SAR of 6-mercaptopurines. Give MOA uses and synthesis of methotrexate.
 - What are antihyperlipidemics? Give SAR, MOA and uses of Lovastatin.
5. Attempt any *one* part of the following: 10 x 1 = 10
- What antihypertensive drugs? Explain MOA, SAR and uses of ACE inhibitors.
 - What are anticoagulants? Give SAR, MOA, uses and synthesis of Warfarin.
6. Attempt any *one* part of the following: 10 x 1 = 10
- Give synthesis mechanism of action synthesis and uses of:
 - Carmustine
 - Nifedipine
 - Write synthesis mechanism of action uses and synthesis of Diclofenac and Paracetamol.
7. Attempt any *one* part of the following: 10 x 1 = 10
- Write a note on computer aided drug design.
 - What is QSAR? Explain in detail.