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H-BP-601

B. Pharma (Semester-VI) Examination, 2022

MEDICINAL CHEMISTRY

[Paper : Third]

Time Allowed : Three Hours

Maximum Marks : 75

Minimum Passing Marks : 28

Note : Answer from all the sections as per given instructions in each section.

SECTION-A

Note : Attempt **all** questions. All questions carry **equal** marks. [10x2=20]

1. (i) Draw the structure of Chloroquine and its uses.

   (ii) Draw the structure of basic nucleous of sulfonamide and its uses.

(iii) What are Prodrugs ?

(iv) Name any two antitubercular drugs.

(v) Give the structure and uses of Penicilline.

(vi) Give the structure and uses of Chloramphenicol.

(vii) What is drug design ?

(viii) What is combitorial chemistry ?

(ix) What is QSAR ?

(x) What is Rifampicin ?

SECTION-B

Note : Attempt **any seven** questions. Each question carries **5** marks. [7x5=35]

1. (i) Give the classification and SAR of antiprotozoal agents.

(ii) Write the synthesis and uses of para-aminosalicylic acid.

(iii) Write short note on urinary tract anti-infective agents.

(iv) Write the synthesis and use of Clotrimazole.

(v) Classify antifungal with examples.

(vi) Write note on folate reductase inhibitors.

(vii) Discuss the physico-chemical parameters in QSAR.

(viii) Explain pharmacophore modeling in detail.

(ix) Write the synthesis and SAR of Ciprofloxacin.

SECTION-C

Note : Attempt **any two** questions. Each question carries **10** marks. [10x2=20]

3. (i) What are Antibiotics ? Classify it with examples. Write the synthesis and SAR of aminoglycosides.

(ii) Classify antivirals with examples. Give the synthesis, SAR and MOA of Acyclovir.

(iii) Classify antihelminthics drugs. Give the synthesis, SAR and MOA of Diethylcarbamazine.

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