Code No. 13255/Non-CBCS

FACULTY OF PHARMACY

B. Pharmacy 3/4 I-Semester (Non-CBCS) (Backlog) Examination, July 2019

Subject : Medicinal Chemistry - I

Time : 3 Hours **Max. Marks: 70**

Note: Answer All questions, All Questions carry equal marks.

1 a) Explain the importance of bioisosters and steric features that are specific for elicitation of biologic response. 9M
b) Write about protein binding of drugs its advantages and disadvantages. 5M

OR

2 a) Discuss in detail conjugation reactions involved in drug Metabolism. 6M
b) Define and give the significance of Ionization and partition coefficient. 8M

3 a) What are cholinergic drugs. Write the MOA and SAR. 8M
b) Give the structure and synthesis of following :
1) Carbochol 2) Dicyclomine Hcl 2x3=6M

OR

4 Add a note on following:
a) Adrenergic blocking agents 7M
b) Neuromuscular blocking agents. 7M

5 a) What are anti-arrhythmic agents. Classify them with examples. Discuss the mode of action & SAR. 2+2+2+3M
b) Write the synthesis and uses of captopril. 5M

OR

6 a) Define and classify antihyper lipedemic agents with examples and SAR of statins. 7M
b) Add a note on Vasodilators. 7M

7 a) Write short note on Immuno modulators. 6M
b) Give the synthesis and uses of Amiloride and Amrinone. 4+4M

OR

8 a) Write the structure, synthesis and uses of following drugs. 3.5x4=14M
1) Propyl thiouracil
2) Acetazolamide
3) Azathioprine
4) Glyclazide

9 a) Write a note on proton pump Inhibitors. 6M
b) Give the structure, synthesis, uses and MOA of omeprazole and citrizine. 4+4M

OR

10 a) Add a note on coagulants and anti coagulants. 6M
b) Write the synthesis, MOA and uses of Diphenhydramine and warfarin. 8M

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