M.Sc. - II (Chemistry) (NEP Pattern) - Semester-III

STPG03CHE05 - Medicinal Chemistry-I

P. Pages : 2 **GUG/W/24/15964**

Time : Two Hours * 7 2 8 4 * Max. Marks : 40

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1. a) Explain significance of drug metabolism in medicinal chemistry. **4**

b) Give synthesis & use of methyldopa. **4**

OR

c) Write a short note on cardiovascular diseases. **2**

d) Give synthesis of atenolol. **2**

e) Explain computer aided drugs inshort. **2**

f) Write short note on drug development. **2**

2. a) Write short note on cancer chemo therapy. **4**

b) Explain type – II diabetes with example. **4**

OR

c) Give synthesis of thiotepa. **2**

d) Give classification antineoplastic agent. **2**

e) Explain role of insulin in diabetics. **2**

f) Give synthesis of 10 musfive. **2**

3. a) Give synthesis of **4**

1) Phenylbutazone

2) Anolgin

b) Explain the mode of action of diuretics. **4**

OR

c) Give synthesis of norfloxacin. **2**

d) Give synthesis of bumetanide. **2**

e) Explain synthesis of ethacrynic acid. **2**

f) Explain general mode of action of anti infective drugs. **2**

4. a) Explain in short CWS depressants. **4**

b) Give synthesis of indanedione's. **4**

OR

c) Give synthesis of lorazepam. **2**

d) Give synthesis of coumarin. **2**

e) Explain CWS stimulant drugs. **2**

f) Explain factors affecting on anti coagulant drugs. **2**

5. Solve **any eight** **1x8 =8**

1) Define prodrugs

2) Write any two example of cardiovascular drugs.

3) Define hormones

4) What are type-I diabetics drugs.

5) Define antipyretics drugs.

6) Write structure ciprofloxacin

7) Write structure of indomethacin

8) Write structure of vitamin K_1

9) Define ideal drug

10) Give any two examples of anticoagulant drugs.

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