

M.Sc.- IInd (Chemistry) (CBCS Pattern) Semester-III
PSCHT12.5 - Medicinal Chemistry

P. Pages : 2

Time : Three Hours



GUG/S/25/11346

Max. Marks : 80

1. a) Explain significance of Drug Metabolism in Medicinal Chemistry. 8
b) Give synthesis & uses of Methyl dopa. 8

OR

- c) Write short note on Cardiovascular diseases. 4
d) Give synthesis of atenolol. 4
e) Explain computer aided drugs in short. 4
f) Write short note on Drug development. 4
2. a) Write short note on cancer chemotherapy. 8
b) Explain type - II diabetics with example. 8

OR

- c) Give synthesis of thiotepa. 4
d) Give classification on antineoplastic agent. 4
e) Explain role of insulin in diabetics. 4
f) Give synthesis of lomustine. 4
3. a) Give synthesis of: 8
1) Phenylbutazone
2) Analgin
b) Explain the mode of action of diuretics. 8

OR

- c) Give synthesis of norfloxacin. 4
d) Give synthesis of bumetanide. 4
e) Explain synthesis of ethacryric acid. 4
f) Explain general mode of action of anti infective drugs. 4

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| 4. | a) | Explain in short CNS depressants. | 8 |
| | b) | Give synthesis of indane dions. | 8 |
| OR | | | |
| | c) | Give synthesis of lorazepam. | 4 |
| | d) | Give synthesis of coumarines. | 4 |
| | e) | Explain CNS stimulant drugs. | 4 |
| | f) | Explain factors affecting on anticoagulant drugs. | 4 |
| 5. | 1) | Define prodrugs. | 2 |
| | 2) | Write two example of cardiovascular drugs. | 2 |
| | 3) | Define hormones. | 2 |
| | 4) | What are type-I diabetics drugs. | 2 |
| | 5) | Define antipyretics drugs. | 2 |
| | 6) | Write structure of ciprofloxacin. | 2 |
| | 7) | Write structure of indomethacin. | 2 |
| | 8) | Define ideal drugs. | 2 |
