

P. Pages : 2

Time : Three Hours



**GUG/W/24/11346**

Max. Marks : 80

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1. a) Explain significance of drug metabolism in medicinal chemistry. 8
- b) Discuss cardiovascular diseases. 8

**OR**

- c) Explain in short computer aided drugs. 4
- d) Give synthesis of methyldopa. 4
- e) Write short note on drug development. 4
- f) Explain synthesis of atenolol. 4
2. a) Write short note on cancer chemotherapy. 8
- b) Give synthesis of ciglitazone. 8

**OR**

- c) Give synthesis of melphalan. 4
- d) Explain antimetabolites in treatment of cancer. 4
- e) Explain role of insulin in diabetics. 4
- f) Write note on cancer causing chemicals. 4
3. a) Explain the synthesis of 8
- i) Aspirin ii) Phenylbutazone
- b) Explain mode of action of diuretics. 8

**OR**

- c) Give synthesis of ciprofloxacin. 4
- d) Explain synthesis of bumetanide. 4
- e) Write a note on analgetic agent. 4

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|-----------|----|---|---|
|           | f) | Explain general mode of action of local anti-infective drugs.         | 4 |
| <b>4.</b> | a) | Explain the factors affecting on coagulants and anticoagulants drugs. | 8 |
|           | b) | Explain CNS stimulant drugs.  | 8 |

**OR**

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|-----------|----|--|----|
|           | c) | Explain CNS depressant drugs.            | 4  |
|           | d) | Give synthesis of diazepam.              | 4  |
|           | e) | Give synthesis of coumarins.             | 4  |
|           | f) | Write mechanism of blood coagulants.     | 4  |
| <b>5.</b> | a) | Define prodrugs.                         | 16 |
|           | b) | What are cardiovascular drugs.           |    |
|           | c) | Define hormones.                         |    |
|           | d) | What are type II diabetes?               |    |
|           | e) | Define loop diuretics.                   |    |
|           | f) | Define antipyretics drugs.               |    |
|           | g) | Give two examples of psychoactive drugs. |    |
|           | h) | Write structure of K <sub>1</sub> .      |    |

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