

(3 Hours)

Total Marks: 70

- N.B.: (1) All questions are **compulsory**
 (2) **Figures** to the right indicates **full marks**

1. (a) Answer the following: - 12
- i) Classify penicillins giving suitable examples.
 - ii) Discuss mode of action and adverse effects of tetracycline.
 - iii) Give the clinical applications of immunomodulators.
 - iv) Enlist different targets for antibiotic action giving one example of drug.
 - v) Give the mechanism of action of Sitagliptin.
 - vi) Enlist any two oral iron preparations.
- (b) Match the followings 3
- | Drug | Indication | |
|------------------|--------------------------------------|--|
| i. Ivermectin | a. Treatment of Paget's disease | |
| ii. Fondaparinux | b. Treatment of scabies | |
| iii. Alendronate | c. Treatment of deep vein thrombosis | |
| | d. Treatment of amoebiasis | |
2. (a) Answer **any two** of the following: - 8
- (i) Classify antimetabolite anticancer drugs. Discuss the pharmacology of Methotrexate.
 - (ii) Classify antifungal drugs. Discuss pharmacology of amphotericin B.
 - (iii) Write a short note on first line antitubercular drugs.
- (b) Write a short note on any one of the followings: 3
- (i) Sulphonamides
 - (ii) Retroviral protease inhibitors
3. (a) Answer **any two** of the following: - 8
- (i) Write a note on oral contraceptives.
 - (ii) Discuss pharmacological actions, mechanism of action and use of thyroxine.
 - (iii) Classify anti-diabetic drugs. Add a note on metformin.
- (b) Write a short note on **any one** of the following: - 3
- (i) SGLT-2 inhibitors
 - (ii) Vitamin D
4. (a) Explain pharmacology of **any two** of following drugs: - 8
- (i) Alteplase
 - (ii) Warfarin
 - (iii) Dipyridamole
- (b) Attempt **any one** of the following:- 3
- (i) Explain mechanism of action and adverse effects of Bivalirudin.
 - (ii) Discuss the role of folic acid in treatment of anaemia. Give therapeutic uses of folic acid.

5. (a) Answer **any two** of the following:- **8**
- (i) Discuss Pharmacotherapy of Amoebiasis.
 - (ii) Classify antimalarial drugs. Add a note on chloroquine.
 - (iii) Discuss antiretroviral drugs giving suitable examples.
- (b) Write a short note on **any one** of the following:- **3**
- (i) Ciprofloxacin
 - (ii) Cotrimoxazole
6. (a) Answer **any two** of the following:- **8**
- (i) Write a note on immunosuppressants.
 - (ii) Explain pharmacology of Oxytocin.
 - (iii) Classify antiplatelet drugs. Discuss mechanism of action and adverse effects of Clopidogrel.
- (b) Write a short note on **any one** of the following:- **3**
- (i) Dapsone
 - (ii) Aminoglycoside antibiotics
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