

[Time: Three Hours]**[Marks:70]**

Please check whether you have got the right question paper.

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

- Q.1 a) Answer the following:- 12
- i. Give mechanism of action of Amphotericin B.
 - ii. Enlist different mechanisms of resistance to antibiotics.
 - iii. Discuss role of CD4+ cells in AIDS.
 - iv. Explain the effect of thyroid hormones on metabolism.
 - v. Classify anti – diabetic agents with suitable examples.
 - vi. Give clinical uses of Vitamin K.
- b) Match the following: 03
- | Drugs | Adverse effects |
|--------------------|----------------------------|
| A. Aminoglycosides | A. Anaphylactoid reactions |
| B. Insulin | B. Ototoxicity |
| C. Parenteral iron | C. Cardiomyopathy |
| | D. Hypoglycaemia |
- Q.2 a) Answer any two of the following:- 08
- i. Enlist any four antimicrobial agents affecting bacterial protein synthesis. Write a note on Penicillin.
 - ii. Write a short note on anthelmintic drugs.
 - iii. Explain the life cycle of malarial parasite. Add a note on site of action of antimalarial drugs.
- b) Attempt any one of the following:- 03
- i. Justify the use of Co-trimoxazole. Enlist clinical uses of Sulphonamides.
 - ii. Classify antimycobacterial agents. Discuss adverse effects of Ethambutol.
- Q.3 a) Answer any two of the following:- 08
- i. Discuss the role of parathyroid hormone and vitamin D in bone metabolism.
 - ii. Explain the pharmacology of Oxytocin.
 - iii. Write a note on DPP IV inhibitors.
- b) Write a short note on any one of the following:- 03
- i. Sulfonylureas
 - ii. Radioiodine

- Q.4 a) Answer any two of the following:- 08
 i. Discuss the pharmacology of folic acid.
 ii. Classify antiplatelet drugs. Write a note on Clopidogrel.
 iii. Give clinical uses of anti – coagulants. Discuss injectable anti – coagulants.
- b) Attempt any one of the following:- 03
 i. Elaborate the role of iron preparations in the treatment of Anaemia.
 ii. Explain mechanism of action and pharmacokinetic aspects of Warfarin.
- Q.5 a) Answer any two of the following:- 08
 i. Discuss pharmacotherapy of leprosy.
 ii. Explain mechanism of action, antibacterial spectrum and clinical uses of Fluoroquinolones.
 iii. Discuss the use of Chloroquine as anti – malarial drug.
- b) Write a short note on any one of the following:- 03
 i. Azole antifungal agents
 ii. Metronidazole
- Q.6 a) Answer any two of the following:- 08
 i. Elaborate in brief on interferons.
 ii. Explain pharmacology of oxytocin.
 iii. Discuss mechanism of action and clinical uses of bisphosphonates.
- b) Write a short note on any one of the following:- 03
 i. Macrolide antibiotics
 ii. Vinca alkaloids
