

[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. Enlist one example of synergistic antimicrobial combination and state its advantages.
 - ii. State the adverse effects of tetracycline.
 - iii. Give the applications of immunosuppressants.
 - iv. State the mechanism of action of propylthiouracil.
 - v. Give the action of insulin on muscles.
 - vi. Explain the therapeutic applications of folic acid.
- b) Justify the following statements:- 03
- i. Chloramphenicol and Erythromycin show partial cross resistance.
 - ii. Synthetic Estrogens have replaced natural estrogens.
 - iii. Urokinase is preferred over streptokinase.
- Q.2 a) Answer any two of the following:- 08
- i. Classify antiviral drugs. Give the pharmacology of amantadine.
 - ii. Enlist polyene antibiotics. Write a note on Amphotericin B.
 - iii. Write a note on first line therapy used in tuberculosis.
- b) Attempt any one of the following:- 03
- i. Write in detail about adverse effects of aminoglycosides.
 - ii. Enlist tissue amoebicides. Compare and contrast the amoebicidal drugs metronidazole & tinidazole.
- Q.3 a) Answer any two of the following:- 08
- i. Classify antithyroid drugs. Write the adverse effects and uses of carbimazole.
 - ii. Explain in brief the pharmacological actions and adverse effects of ergot alkaloids.
 - iii. Classify anti - diabetic drugs. Write a note on thiazolidinediones.
- b) Attempt any one of the following :- 03
- i. State the pharmacological actions and adverse effects of mineralocorticosteroids.
 - ii. Enlist the types of oral contraceptives. Compare the effect of combined pill with phased regimen.

- Q.4 a) Answer any two of the following:- 08
i. Discuss the biological role of vitamin B₁₂ and its clinical uses.
ii. Discuss the pharmacology of warfarin.
iii. Give biological action and clinical uses of vitamin K. 03
- b) Attempt any one of the following:-
i. Discuss the pharmacology of Clopidogrel.
ii. What are fibrinolytic agents? Give their clinical indications. 03
- Q.5 a) Answer any two of the following:- 08
i. Classify antimetabolites used as anticancer agents. Discuss the pharmacology of fluorouracil.
ii. Classify Cephalosporins. Discuss the pharmacokinetics and clinical indications of Cefotaxime.
iii. Classify antimalarial drugs. Discuss the pharmacology of artemisinin.
- b) Write a short note on any one of the following:- 03
i. Adverse effects of sulphonamides
ii. Ciprofloxacin
- Q.6 a) Answer any two of the following:- 08
i. Classify immunosuppressant. Discuss the pharmacology of cyclosporine.
ii. What are immunomodulators? Write a note on role of immunostimulants in treatment of AIDS.
iii. Which is the active form of vitamin D? Discuss its pharmacological action.
- b) Write a short note on any one of the following:- 03
i. Therapeutic regimen used in leprosy
ii. Triazole antifungals
