

[Time: 3Hours]

[Marks:70]

Please check whether you have got the right question paper.

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

Q.1 (a) Answer the following :-

12

- i. Explain mechanism of any one synergistic antimicrobial combination with suitable example.
- ii. Classify antimicrobial agents based on mechanism of action.
- iii. What is an immunomodulator? Give two examples of immunomodulators used in the treatment of HIV.
- iv. Give clinical indications for the use of thrombolytic drugs.
- vi. Explain the mechanism of action of thiazolidinediones.

(b) Fill in the blanks:-

3

- i. Metformin is ----- class of hypoglycemic drug.
- ii. ----- is a fat soluble vitamin essential for formation of clotting factors.
- iii. ----- produces gray baby syndrome.

Q2 (a) Answer any two of the following :-

8

- i. Classify beta lactamase antibiotics. Write in brief about Methicillin.
- ii. Discuss the pharmacology of tetracyclines.
- iii. Classify antileprotic drugs. Write a note on dapsone.

b) Answer any one of the following :-

3

- i. Discuss in brief the adverse effect of aminoglycosides.
- ii. Write a note on ketoconazole.

Q3 (a) Answer any two of the following:-

8

- i. Classify oral hypoglycemic drugs and discuss mechanism of action and adverse effects of sulfonylureas.
- ii. Enlist the drugs used for the treatment of osteoporosis. Elaborate on bisphosphonates.
- iii. Give the mechanism of action of anti-thyroid drugs. Discuss the clinical uses of radioactive iodine.

(b) Answer any one of the following:-

3

- i. Write a note on oral contraceptives.
- ii. What is the physiological role of vitamin D. State the active forms of vitamin D.

Q4 (a) Answer any two of the following :-

8

- i. Classify anticoagulants. Discuss mechanism of action and uses of warfarin.
- ii. Explain the physiological role of iron and vitamin B 12
- iii. Discuss the pharmacology of DPP-IV Inhibitors.

(P.T.O)

(b). Answer any one of the following :-

- i. Discuss the use of aspirin in thromboembolic diseases.
- ii. Write a note on heparin.

3

Q5 (a) Answer any two of the following:-

8

- i. Classify fluoroquinolones. Describe the mechanism of action, therapeutic uses and adverse effects of ciprofloxacin
- ii. Classify anti-retroviral drugs. Describe the mechanism of action. Therapeutic uses and adverse effects of zidovudine.
- iii. Classify anticancer drugs. Write a note on vinca alkaloids.

(b). Write a short note on any one of the following:-

3

- i. Metronidazole
- ii. Amphotericin B

Q6 (a) Answer any two of the following:-

8

- i. Classify immunosuppressants. Explain the role of cyclosporine in preventing graft rejection.
- ii. What are oxytocics? Give the mechanism of action and therapeutic uses of oxytocin.
- iii. What are immunostimulants? Write a note on interferons.

(b). Write short note on any one of the following:-

3

- i. Rifampicin
- ii. Radical cure of malaria