

QP Code : 16121

(3 Hours)

Total Marks : 70

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

1. (a) Answer the following :- 12
- Enlist the various mechanisms for development of microbial resistance.
 - Give mechanism of action of aminoglycosides.
 - CD4 cell count gets depleted in HIV infection. Justify.
 - Name the hormones secreted by thyroid gland. Give the physiological role of one of the thyroid hormone.
 - Give mechanism of action of DPP-IV inhibitors.
 - Enlist factors affecting iron absorption.
- (b) Fill in the blanks:- 3
- _____ produces gray baby syndrome.
 - Active form of vitamin D is _____.
 - Aspirin inhibits _____ enzyme to produce its analgesic and anti-inflammatory action.
2. (a) Answer any two of the following :- 8
- Explain the cycle of malarial parasite indicating various targets for anti-malarial drug action.
 - Classify anti-cancer drugs. Explain pharmacology of any one class.
 - Give classification, mechanism of action and therapeutic uses of penicillin. 3
- (b) Write short note on any one of the following :- 8
- Tetracyclines
 - Albendazole
3. (a) Answer any two of the following :-
- Classify anti-diabetic drugs. Explain mechanism of action and unwanted effect of sulfonylureas.
 - Write a short note on anti-thyroid drugs.
 - Explain pharmacological action, adverse effect and clinical uses of oxytocin. 3
- (b) Answer any one of the following :-
- What are the different types of oral contraceptives. Explain mechanism of action of combined pill.

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- (ii) Explain the role of parathyroid hormones in the treatment of osteoporosis. 8
4. (a) Explain mechanism of action, adverse effects and clinical uses of **any two** drugs :- 3
- (i) Heparin
 - (ii) Aspirin
 - (iii) Folic acid
- (b) Write short notes on **any one** of the following :- 8
- (i) Vitamin - K
 - (ii) Thrombolytic Drugs
5. (a) Answer **any two** of the following :- 3
- (i) Sulphonamides are not very effective in presence of pus justify. Explain mechanism of action of trimethoprim.
 - (ii) Write a short note on chemotherapy of AIDS
 - (iii) Classify anthelmintic drugs. Write a short note on Metronidazole.
- (b) Answer **any one** of the following :- 8
- (i) Classify anti-fungal drugs on the basis of mechanism of action
 - (ii) Classify anti-tubercular drugs. Add a note on mechanism of action of Rifampicin.
6. (a) Answer **any two** of the following :- 3
- (i) Write a short note on Immunosuppressant.
 - (ii) Give mechanism of action and complications of insulin.
 - (iii) Classify the drugs used for treatment of osteoporosis. Elaborate on pharmacological actions of vitamin-D.
- (b) Answer **any one** of the following :-
- (i) Give mechanism of action of Amphotericin B and Azole antifungals.
 - (ii) Write a short note on Dapsone.
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