

- (g) Describe in brief about DOTS therapy.
- (h) Write the name of different types of penicillin and how this group of drugs are bacteriostatic.
- (i) What do you mean by the term anabolic steroid? Write the applications of anabolic steroid.
- (j) Write in brief about universal antidote.
- (k) What is the major adverse effect of chloramphenicol?
- (l) Describe the therapeutic application of silver sulphadiazine and sulphasalazine.
- (m) Discuss the principle of appetite stimulants.
- (n) Give an example of anti-motility drugs and its therapeutic application.
- (o) Write an example of drug used in the management of hypo and hyper thyroidism.
- (p) What are the repository preparations of insulin? Explain with example.
- (q) Write an example of aromatase inhibitor and selective estrogen receptor modulator.

2. Answer any *eight* questions :

5×8=40

- (a) Classify cephalosporin group of antibiotics with examples of each class and their pharmacological applications.
- (b) Write a brief note on the aim and objectives of the management of different types of poisoning with examples of drugs / antidotes given.
- (c) Define emetics and anti-emetics drug with examples. Explain the mechanism of actions of different anti-emetic agents.
- (d) Classify antiviral drugs with examples of each class and their pharmacological applications.
- (e) Describe briefly about pharmacological applications of corticosteroid and anabolic steroid.
- (f) Classify anticancer drugs on their mechanism of action with examples.
- (g) What are sulfonamides ? Classify them with examples and explain their different therapeutic applications.
- (h) Write a short note on osmotic purgative and anti-diarrheal drugs.

(i) What are Proton pump inhibitors and H₂ blockers ? Describe their mechanism of action and therapeutic applications in details.

(j) Write short notes on :

(i) Anti-HIV drugs and its applications

(ii) Immunosuppressant drugs and its therapeutic application.

3. Answer any *three* questions :

I. (a) Define the term antibiotics and antimicrobial agents. Classify chemotherapeutic agents on the basis of their chemical nature, antimicrobial activity and mechanism of action with examples.

(b) Write a short note on antibiotic resistance.

7+3=10

II. (a) Classify oral hypoglycemic agents with example and explain the mechanism of action with respect to hypoglycemic effect of each class.

(b) Write a short note on the drugs acting on oral contraceptive and anti-thyroid drugs.

6+4=10

III. Define antibiotics with example. Write in brief about classifications, mechanism of action and pharmacological applications of penicillins, aminoglycoside and macrolide group of antibiotics. $1+9=10$

IV. (a) Describe in details about the management of peptic ulcer. Classify laxative and purgatives with examples. 6

(b) Write short notes on the management of poisoning (any two) : $2 \times 2 = 4$

(i) Organophosphorus poisoning

(ii) Barbiturate poisoning

(iii) Opium poisoning.