

B. Pharm / Sem - V (BSGS)
Sub + Pharmacology - II

Date - 03 / Dec / 15

QP Code : 21775

(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
i) Explain cross resistance in bacteria with suitable example.
ii) Give mechanism of action of tetracycline.
iii) Enlist the disorders in which immunosuppressants are prescribed.
iv) Give any two physiological roles of thyroid hormones.
v) Discuss clinical uses of oxytocin.
vi) Suggest any two conditions where parenteral iron therapy is recommended.
- b) Fill in the blanks: 3
i) ----- antibiotics are known to cause ototoxicity.
ii) Acarbose is a complex oligosaccharide which reversibly inhibits ----- enzyme.
iii) Deficiency of ----- is the main reason for anaemia in patients with kidney failure.
2. a) Answer any two of the following: 8
i) Classify chemotherapeutic agents on the basis of their mechanism of action. Justify combination of trimethoprim with sulphamethoxazole in antimicrobial therapy.
ii) Explain diagrammatically the various targets of anti-malarial therapy.
iii) Brief on the general principles of cytotoxic anti-cancer therapy. Provide a note on 5-fluorouracil.
- b) Answer any one of the following: 3
i) Give a brief note on mechanism of action and indications of primaquine.
ii) Elaborate on combination therapy used in treatment of tuberculosis.
3. a) Answer any two of the following: 8
i) Enlist different forms of vitamin-D. Add a note on its pharmacological action and clinical uses.
ii) Classify oral hypoglycemic drugs. Discuss in brief pharmacology of DPP-IV inhibitors.
iii) Give an account on drugs used as oxytocics. Discuss clinical uses of oxytocin.

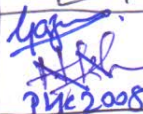

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- b) Answer **any one** of the following: 3
- i) Write a short note on oral contraceptives.
 - ii) Elaborate on anti-thyroid drugs.
4. a) Answer **any two** of the following: 8
- i) Discuss in a brief about the pharmacology of heparin.
 - ii) Write a note on use of clopidogrel in treating ischemic heart disease.
 - iii) Discuss the role of tissue plasminogen activators in treatment of stroke.
- b) Answer **any one**: 3
- i) Write a short note on folic acid.
 - ii) Compare and contrast pharmacological action of Vitamin-K and warfarin.
5. a) Answer **any two** of the following: 8
- 1) Classify anti-viral drugs. Add a note on Protease Inhibitors.
 - 2) Give a detailed account of "Azole" antifungals.
 - 3) Classify cephalosporins. Give an account about their mechanism of action.
- b) Answer **any one** of the following: 3
- 1) Elaborate on pharmacology of mixed amoebicidal drugs.
 - 2) Write a short note on multidrug therapy in leprosy.
6. a) Answer **any two** of the following: 8
- i) Enlist immunosuppressant drugs. Add a note on tacrolimus.
 - ii) Give mechanism of action, indications and adverse effects of insulin.
 - iii) Discuss the role of bisphosphonate in the treatment of osteoporosis.
- b) Answer **any one** of the following: 3
- i) Discuss the role of piperazine as an anthelmintic.
 - ii) Give the mechanism of action and adverse effects of Chloramphenicol.

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