

Question Paper

Exam Date & Time: 13-May-2024 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

Advanced Pharmacology II [PHA-MPL201T -S1]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

Answer the following (10 marks x 5 = 50 marks)

- 1) Compare and contrast the mechanisms of different classes of oral hypoglycemic agents with suitable examples. (10)
- 2) With examples, discuss the biochemical reactions as molecular targets of chemotherapy. Emphasize the combined use of antimicrobials. (4+6) (10)
- 3) Explain the role of the complement system and NK cells in immune response. Discuss the chronopharmacology of asthma and peptic ulcer. (5+5) (10)
- 4) Discuss the mechanisms of action of drugs commonly used in the treatment of peptic ulcers. (10)
- 5) What are free radicals and how they are produced in the body? With a flow chart and examples, explain the mechanisms of antioxidants. (5+5) (10)

SECTION - B

Answer all the questions.

Answer the following (5 marks x 5 = 25 marks)

- 6) Explain the mechanism of action of any two classes of anticancer drugs. (5)
- 7) Explain the role of oxidative stress in cancer development and neurological disorders. (5)
- 8) Discuss any two major recent advances in diabetic research as per the American Diabetes Association. (5)
- 9) How do corticosteroids affect the immune system and inflammation? Mention the side effects of Steroids. (5)
- 10) Describe the role of calcineurin inhibitors in immunosuppression and provide an example of a drug in this class. (5)

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