

Exam Date & Time: 07-Sep-2021 (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]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

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

- 1) Describe the mechanisms involved in insulin secretion and action. Explain the role of drugs that modify these. (10)
- 2) List the problems associated with antibiotic therapy. Explain the types and mechanisms of problems leading to failure of antibiotic therapy. (10)
- 3) Compare and contrast asthma and COPD with respect to etiology, pathophysiology and management. (10)
- 4) With a neat labelled diagram, explain the regulation of acid secretion and the drugs that intervene at different sites. Explain the mechanism of action of prokinetic drugs. Why is domperidone preferred to metoclopramide in levodopa-induced vomiting? (10)
- 5) Describe the mechanisms for free radical generation. Explain the protective effects of anti-oxidants (10)

SECTION - B

Answer all the questions.

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

- 6) Discuss the role of antimetabolites in cancer chemotherapy. (5)
- 7) With the help of scientific facts, Justify the following statement: "In Alzhiemer's disease, oxidative stress is one of the causative factors for disease progression and severity." (5)
- 8) Explain the role of reactive oxygen species in cancer progression and treatment. (5)
- 9) Discuss the mechanisms of hormonal contraception. (5)
- 10) With examples, describe the effect of immune suppressants in altering the processes of immune responses. (5)

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