

Exam Date & Time: 13-Jul-2022 (10:00 AM - 01:00 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) . Describe the therapeutically useful pharmacological action of steroids. Correlate the toxic effect of steroids with the pharmacological effect. (10)
- 2) With suitable examples, discuss the problems associated with chemotherapy. (10)
- 3) List the biochemical mediators of inflammation. Explain the concept of innate immunity. (10)
- 4) Describe, with a neat picture, the physiological and pharmacological regulation of gastric secretion. (10)
- 5) Explain the role of free radical in pathogenesis of neurological diseases. With examples, describe the types and role of antioxidants. (10)

#### SECTION - B

Answer all the questions.

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

- 6) With a neat diagram explain the mechanism of action of alkylating agents (5)
- 7) Discuss the recent advances in the treatment of Alzheimer's disease. (5)
- 8) List and give examples of different types of biological rhythm. Briefly, explain the significance of chronotherapeutics. (5)
- 9) Explain the mechanism of action of Combined Oral Contraceptives. (5)
- 10) Explain the two different mechanisms of action Inhibitors of Lymphocyte Signaling to Prevent Immune Cell Activation and Proliferation. (5)

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