

Question Paper

Exam Date & Time: 29-Nov-2017 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES END SEMESTER THEORY EXAMINATIONS - NOVEMBER 2017

PROGRAM: MPHARM SEMESTER 1

DATE: 29/11/2017

TIME: 2:00PM - 5:00PM

Advanced Pharmacology I [PHA-MPL102T]

Marks: 50

Duration: 180 mins.

Answer all the questions.

Answer the following (5 marks x 8 = 40 marks)

- 1) List the different superfamilies of receptors with examples. Explain the steps involved in the signal transduction through the receptors that are located intracellularly. (5)
- 2) Write a note on cytochrome P-450 enzymes. Explain their significance in biotransformation reactions. (5)
- 3) Write a note on GABA receptor-ion channel complex. List the different drugs that affect the receptor functions. (5)
- 4) Explain the pharmacological actions of propranolol. (5)
- 5) List the anti-parkinsonian drugs acting through modulation of central dopaminergic system. Explain the actions of dopamine precursor. (5)
- 6) Describe the mechanism of action of spironolactone and amiloride. (5)
- 7) Explain the synthesis of prostaglandins and list the drugs affecting the processes. (5)
- 8) With the help of a diagram explain the mechanisms of action of warfarin and heparin. (5)

Answer the following with specific answers (2 marks x 5 = 10 marks)

- 9) (2)

- A) Even pure nitrous oxide cannot produce anaesthesia. Why?
- B) Care should be taken while prescribing antibiotics to women taking oral contraceptives. Why? (2)
- C) In patients who are on long term aspirin therapy, aspirin should be stopped one week before elective surgery. Why? (2)
- D) Propranolol exacerbates asthma in susceptible individuals. Why? (2)
- E) Alpha blockers are useful in benign hypertrophy of prostate. Explain. (2)

-----End-----