Examination: Master in Pharmacy First Year Second Semester EXAM 2024

Subject: ADVANCED PHARMACOLOGY-II

Ref. No.: Ex/MPL201T/2024

Time: 03 hrs Full Marks: 75

GROUP A (25 marks)

- Q1) Discuss the merits and demerits of Stem Cell Therapy in Cardiac Infraction and Diabetes Mellitus. (10)
- Q2) With the help of a diagram write down the working principle of Flow cytometry and FACS. (10)
- Q3) Write about the method and purpose for Pulse Chase Assay.

(05)

GROUP B (25 marks)

- Q4) Write down the biosynthesis of thyroid hormones. How thyroid hormone secretion is regulated? Shortly discuss about hypothyroidism. (15)
- Q5) Write notes on (any two)

(10)

- a) Insulin preparation.
- b) Integrated hormonal regulation of female reproductive system.
- c) Estrogen.
- d) Micro and macro vascular complications of diabetes mellitus.

GROUP C (25 marks)

Q6) Briefly discuss about the following: (Attempt any 5)

(5x5=25)

- a) Development of resistance to Beta Lactam antibiotics.
- b) Clinical significance of 5th Generation Cephalosporins.
- c) Mode of action and use of Levofloxacin
- d) Management of Atypical Bacterial Pneumonia.
- e) Synergistic activity of Co-trimoxazole
- f) Mode of action and use of Avibactam.
- g) Clinical use of Meropenem