

Roll No.

Total No. of Pages : 01

Total No. of Questions : 06

M.Pharmacy (Pharmacology) (Sem.-1)
CELLULAR & MOLECULAR PHARMACOLOGY

Subject Code : MPL-104T

M.Code : 74678

Date of Examination : 19-01-2023

Time : 3 Hrs.

Max. Marks: 75

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of SIX questions.
2. Each question carries FIFTEEN marks.

1. (a) Give a note on gene mapping and sequencing.
(b) Write a note on pathways of the apoptosis.
2. (a) Discuss the general about ligand gated ion channels with examples.
(b) Write a note on role of secondary messenger with special emphasis on inositol 1,4,5 triphosphate.
3. (a) Give the principle and application of the PCR.
(b) Discuss the JAK/STAT pathway in detail with a suitable flowchart.
4. Write a note on gene therapy, its clinical applications and recent advancements.
5. (a) Discuss in brief about pharmacogenomics and its role in selection of the personalized medication.
(b) Give a short note on monoclonal antibody as immunotherapeutics and their application in clinical practice.
6. (a) Give principle and applications of flow cytometry.
(b) Give general procedure for the cell culture. What do you understand by cryopreservation?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.