

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 06

M.Pharmacy (Pharmacology) (2017 & Onwards) (Sem.-1)

CELLULAR & MOLECULAR PHARMACOLOGY

Subject Code : MPL-104T

M.Code : 74678

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. Write notes on following (Any **THREE**) :
 - a) Principles and applications of flow cytometry.
 - b) Proteomics
 - c) Significance of polymorphism in drug therapy
 - d) Pharmacogenomics
2.
 - a) Explain in detail mitogen activated protein kinase signalling and its role as drug target.
 - b) Elaborate on biosimilars and their applications.
3. Explain (Any **THREE**) :
 - a) Gene mapping and its applications
 - b) GPCR's
 - c) Necrosis
 - d) ELISA
4.
 - a) Define Gene Therapy. What are the various techniques of gene transfer?
 - b) Discuss the principles and applications of polymerase chain reaction.

5. Write notes on :
- a) Recombinant DNA technology and its applications.
 - b) Micro array techniques.
6. Answer the following :
- a) What are the basic equipments used in cell culture lab?
 - b) Define Cell Lines. How cells are cultured in cell culture techniques?
 - c) What is calcium influx assay? What are its application?

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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.