

M. Pharm. 1<sup>st</sup> year 2<sup>nd</sup> semester Examination 2019

Subject: Pharmacognosy II

Time: 3 hours

Full Marks: 100

(Answer any five taking at least 2 from each group)

Group A

1. How do you bring up the cryopreserved animal cells and initiate animal cell culture? Describe the terms splitting and passaging. Write down the method of protein separation by gel electrophoresis. Write down the composition of gels and mention the roles of comprising components. 20
2. Describe schematically the role of signal proteins in the glucose utilization pathway. Discuss any one type 2 diabetic model with suitable explanation. What is the role of  $\beta$ -actin in western blot? What is stripping in western blot? 20
3. Write note on
  - a) Buffers used in western blot
  - b) ICH GCP principles20
4. Explain clinical trials. Describe different phases of clinical trial with proper justification. 20
5. Write note on
  - a) Screening of acute and sub-acute toxicity studies
  - b) CPASEA20

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M. Pharmacy First Year Second Semester Examination 2019

Subject: Pharmacognosy II

Time: 03 Hours

Full Marks: 100

**Group B**

Answer any five questions, taking at least two from each group, each question carry equal Marks.

1. Write in details about the medicinal and aromatic plant propagation. 20
2. How Sea source can be exploited as a source of drugs 20
3. Write notes on : a) Pharmaceutical aids of natural origin  
b) Commercial production of Digitalis 20
4. Pesticides of natural origin and Plant growth regulator 20