

Sardar Bhagwan Singh University Balawala, Dehradun
VIII Assignment, M. Pharm II semester
School of Pharmaceutical Sciences and Technology
M. Pharm Pharmacognosy (1st year) II Sem
Subject- Medicinal Plant Biotech (MPG201-T)
Total Marks 30 **Submission Date 17.05.2020**

Attempt all question

Section A: multiple choice Questions (1 Mark each)

- Q. No. (1) The bioreactor is not capable of _____
a) Producing aseptic conditions b) Meeting containment regulations
c) Controlling pH d) Produce electricity
- Q. No. (2) Which of the following fermenters are characterized by height to diameter ratio?
a) Tower fermenter b) Airlift fermenter
c) Hollow fibre d) Perfusion bioreactor
- Q. No. (3). In which of the following fermenters the impellers are replaced by the constant flow of gas?
a) Airlift fermenter b) Tower fermenter
c) Hollow fibre d) Perfusion bioreactor
- Q. No. (4). What is the function of carbon in stainless steel?
a) Improves resistance to corrosion b) Improves ductility
c) Reduces sensitization d) Improves halogen resistance
- Q. No. (5). Who of the following is used to produce a cooling effect on the vessel?
a) Baffles b) Sparger
c) Impeller d) Stirrer glands

Section B: True False questions (1 Mark each)

- Q. No. (1) In a bubble column reactor, the mass transfer depends on the size of the bubble.
(true /false)
- Q. No. (2) Bubble column reactor provides better mixing than airlift reactors (true /false)
- Q. No. (3) The jacketed vessel is more stable than the non-jacketed vessel. (true /false)
- Q. No. (4) transgene is a foreign gene (true /false)
- Q. No. (5) The plant whose genome is altered by adding one or more transgenes are known as transgenic plants (true /false)

Section C: Short answer questions (5Mark each)

- Q. No. (1) Write a short note on gene transfer method.
- Q. No. (2) Write short note on advantages of mist bioreactor

Section D: Long answer question (10 mark)

- Q. No.(1) write a detail note on application of transgenic plants