

Sardar Bhagwan Singh University Balawala, Dehradun
VII 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 10.05.2020**

Attempt all question

Section A: multiple choice Questions (1 Mark each)

Q. No. (1) Moist heat sterilization consist of

- A. steam under pressure
- B. heating at 120 C°
- C. steam pressure of 1.05kg/cm
- D. all of these

Q. No. (2). thermolabile component of culture media is

- A. Agar
- B. inorganic nutrients
- C. plant growth regulators
- D. sugars

Q. No. (3). which of the following is not true about filter sterilization?

- A. pore size 0.45 µm
- B. sterilized components can be stored at 4C°
- C. a filter paper can use sterilization
- D. filter sterilization use for thermostable components

Q. No. (4). the sterilization of instrument is usually carried out by

- A. 50% methanol
- B. 95% ethanol
- C. both (a) and (b)
- D. none of above

Q. No. (5). Explants can sterilize by

- A. heating at high temperature
- B. by filtration
- C. both (a) and (b)
- D. by chemical sterilization

Section B: True False questions (1 Mark each)

Q. No. (1) Plant cell culture has been for sometime considered as an alternative method for the production of secondary metabolites (true /false)

Q. No. (2) major limiting factors in the development of a commercial production system using plant cell culture has been the production cost of phytopharmaceuticals (true /false)

Q. No. (3) Immobilization of cells would be a method of increasing productivity (true /false)

Q. No. (4) Immobilization of plant cells can achieved by suspending these materials on to or within a liquid (true /false)

Q. No. (5) Matrix for immobilization must be easily available. (true /false)

Section C: Short answer questions (5Mark each)

Q. No. (1) Write a short note on biotransformation of alkaloid and steroids.

Q. No. (2) Write short note on advantages of biotransformation

Section D: Long answer question (10 mark)

Q. No.(1) write a detail note on need of plant cell immobilization, explain its role in secondary metabolite production.