

B.sc. SEM V
BOT-A
DSE-B-P (PLANT BIOTECHNOLOGY)
Practical Examination
2020

Time: 1 hr 30 min

FM 30

Answer the following questions:

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| 1. a. Name one instrument used in plant tissue culture for aseptic inoculation? | 1 |
| b. What do you understand by chemically defined medium? | 2 |
| c. Name two surface sterilizing agents used in plant tissue culture? | 2 |
| d. Write two methods of sterilization. | 5 |
| 2. a. Define embryoid. | 2 |
| b. Illustrate the protocol for inducing somatic embryogenesis with flow chart. | 4 |
| c. Write the steps for making artificial seeds. | 4 |
| 3. a. What do you mean by androgenesis? | 2 |
| b. Write the steps for anther culture. | 5 |
| c. Write the working principle of Laminar air flow. | 3 |