

- Q-3 a** Explain the differences between batch and continuous cultivation process. **7**
b Explain the production of microbial product (any one) using rDNA technology. **7**

SECTION – II

Q-4 Attempt the Following questions **7**

- a.** What are primary metabolites?
- b.** What is biomass?

- c.** Write names of two industrial microorganisms.
- d.** What are enzyme inhibitors?
- e.** Citric acid is a secondary metabolite. True/False.
- f.** What is pH probe? Write its function in fermentor.
- g.** Mushroom is a type of SCP. True/False.

Q-5 Write notes on-

- a** Maintenance of microbial cultures **7**
- b** Growth kinetics **7**

OR

- Q-5 a** Explain the SSF with suitable diagram. **7**
b Explain the types of media used for microbial growth. **7**

Q-6 Write notes on-

- a** Genetic improvement of microbes **7**
- b** Industrial enzymes **7**

OR

Q-6 Attempt all Questions

- a** Explain the selection criteria for industrial microbes. **7**
- b** What do you mean by biofertilizer? Explain it with suitable examples. **7**

