



# CBCS SCHEME

18BT51

## Fifth Semester B.E. Degree Examination, June/July 2023 Biobusiness and Entrepreneurship

Time: 3 hrs.

Max. Marks: 100

**Note:** Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

- 1 a. Describe the need and Rationale and characteristics of Small Scale Industry. (06 Marks)
- b. Give one case study on Small Scale Industry. What are its typical characteristics and Market Feasibility? (08 Marks)
- c. Illustrate on Market and Technical Feasibility studies in context of Biobusiness. (06 Marks)

OR

- 2 a. Highlight the concept of Entrepreneurship and substantiate the process of Evolution and Development of Entrepreneurship. (10 Marks)
- b. Describe the Important role of Entrepreneur in Economic Development of a Country. (10 Marks)

### Module-2

- 3 a. Discuss the challenges and scope of value added herbal products as Biobusiness. (10 Marks)
- b. Explain the beneficial opportunities and market trends in terms of Poly house culturing. (10 Marks)

OR

- 4 a. Explain the scope and production opportunity on Plant cell and Tissue culture technique. (10 Marks)
- b. Illustrate the Integration of system biology and use of Biosensor in Agri - Management System. (10 Marks)

### Module-3

- 5 a. Explain the Scope and production opportunity on Fermented products Probiotic and Prebiotics. (10 Marks)
- b. Write short note on :
  - i) Microbial genomic contact research
  - ii) Integrated Compost Production.(10 Marks)

OR

- 6 a. Assess the Global Scope and production opportunities in Biopesticide / Bioinsecticide. (10 Marks)
- b. Write a short note on :
  - i) Single cell proteins
  - ii) Secondary metabolites.(10 Marks)

### Module-4

- 7 a. Discuss the various types of technology transfer with suitable examples. (10 Marks)
- b. Describe with a general example the Implementation of Network Analysis Techniques in Bioprocess Industry. (10 Marks)

OR

- 8 a. Enumerate on role and significance of BiSEP Programme in Fostering Biobusiness. (10 Marks)  
b. Elaborate the importance of Business Incubation Support Schemes with examples. (10 Marks)

**Module-5**

- 9 a. List out different schemes and proposals under AYUSH and FSSAI in India and explain. (10 Marks)  
b. Elaborate the Biosafety concerns at the level of Individuals , Institution , Society and Region. (10 Marks)

OR

- 10 a. Elaborate the Structural Organisation of Indian DSIR and Broadcast the different events from DSIR for nation development. (10 Marks)  
b. Enumerate with suitable examples the Ethical concerns of Biotechnology Research and Innovation. (10 Marks)

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