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18BT51

## Fifth Semester B.E. Degree Examination, Feb./Mar. 2022 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. Highlight the concept of Entrepreneurship and substantiate the process of Evolution and Development of Entrepreneurship. (10 Marks)
- b. Describe the important role of Entrepreneurs in Economic Development of a Country. (10 Marks)

OR

- 2 a. Describe the Need and Rationale and characteristics of Small Scale Industry. (06 Marks)
- b. Define a Small Scale Industry. What are its typical characteristics? (08 Marks)
- c. Illustrate on Market and Technical Feasibility studies in context of Biobusiness. (06 Marks)

### Module-2

- 3 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)

OR

- 4 a. Discuss the Challenges and Scope of value added herbal products as Biobusiness. (10 Marks)
- b. Explain with Beneficial opportunities and market trends in terms of Polyhouse culturing. (10 Marks)

### Module-3

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

OR

- 6 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)

### Module-4

- 7 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)

OR

- 8 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 Bioprocessing Industry. (10 Marks)

**Module-5**

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

**OR**

- 10 a. What are the different schemes and proposals under AYUSH and FSSAI of India? (10 Marks)  
b. Elaborate the biosafety concerns at the level of Individuals, Institution, Society and Region. (10 Marks)

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