



# CBCS SCHEME

18BT51

## Fifth Semester B.E. Degree Examination, Dec.2024/Jan.2025 Bio-Business & Entrepreneurship

Time: 3 hrs.

Max. Marks: 100

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

### Module-1

- 1 a. Elaborate the stages in entrepreneurial process. (10 Marks)
- b. Discuss the financial feasibility study. (10 Marks)

OR

- 2 a. Describe the importance of bio – business with a neat flowchart, citing suitable examples from Indian context of bio – business. (10 Marks)
- b. Enumerate the scope and characteristics of small scale industries. (10 Marks)

### Module-2

- 3 a. Elaborate the i) Essential requirement ii) Challenges and scope and polyhouse culture. (10 Marks)
- b. Describe the significance of biosensor development in agri management. (10 Marks)

OR

- 4 a. Discuss the schemes of :  
i) Plant cell and tissue culture techniques ii) polyhouse culture. (10 Marks)
- b. Explain the importance of integration of system biology for agricultural applications. (10 Marks)

### Module-3

- 5 a. Discuss the business opportunities of :  
i) Fermented food ii) Monoclonal / Polyclonal antibodies. (10 Marks)
- b. Explain the challenges and scope of biopesticide / insecticide production. (10 Marks)

OR

- 6 a. Discuss the essential requirements of :  
i) Stem cell production ii) Integrated compost production. (10 Marks)
- b. Elaborate the marketing strategies of stem cell production. (10 Marks)

### Module-4

- 7 a. Enumerate the role and significance of BIRAC in fostering bio - business. (06 Marks)
- b. Discuss the principle of technology leasing with advantages and disadvantages. (06 Marks)
- c. Distinguish between PERT and CPM. (08 Marks)

OR

- 8 a. Discuss the various start – up schemes in Indian Government. (06 Marks)
- b. Enumerate the methods of project identification. (06 Marks)
- c. Elaborate the importance of Indian Company Act of biobusiness with examples. (08 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

**Module-5**

- 9 a. Enumerate the role and significance of regulatory affairs in bio – business with a note on FSSAI. (10 Marks)  
b. Elaborate the biosafety concerns at the level of individuals. (10 Marks)

**OR**

- 10 a. Discuss the ethical concerns of the Biotechnology research and innovation. (10 Marks)  
b. Elaborate the role of public education of the process of Biotechnology in generating new forms of life for informed decision – making with examples. (10 Marks)

\* \* \* \* \*