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18BT51

Fifth Semester B.E. Degree Examination, Dec.2023/Jan.2024
Bio-Business 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 on important stages in an Entrepreneurship process. (10 Marks)
b. Describe the important role of entrepreneurs in Economic Development of a country. (10 Marks)

OR

- 2 a. Discuss the SWOT analysis of BT industry. (06 Marks)
b. Explain the feasibility study by taking appropriate explanation of Market, Technical, Financial and social feasibility study. (08 Marks)
c. Describe the need and rationale and characteristics of SSIs. (06 Marks)

Module-2

- 3 a. Explain the scope and production opportunity on plant cell and tissue culture technique. (10 Marks)
b. Discuss in detail the production and market trends of Nutroceuticals. (10 Marks)

OR

- 4 a. Elaborate the significance of biosensor development in Agri management. (08 Marks)
b. Discuss the challenges and scope of value added herbal products. (06 Marks)
c. Describe the business potential of bioethanol production. (06 Marks)

Module-3

- 5 a. Access the challenges and scope of single cell protein technology. (10 Marks)
b. What is the current scope of prebiotics and probiotics in India? Explain in detail on its importance and the business opportunity in it. (10 Marks)

OR

- 6 a. Outline the importance of stem cells in the biotech sector. Analyze the marketing strategies and essential requirement needed to establish a stem cell bank. (10 Marks)
b. Briefly explain the various methods of integrated compost production and analyze the essential requirement to establish a SSI based on it. (10 Marks)

Module-4

- 7 a. What is a Project? Discuss in detail the process of project identification and selection. (10 Marks)
b. What is a project report? Describe its significance as well as the process in making one. (10 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.

OR

- 8 a. List and explain any 3 international partners and their focus in promoting biotech in India. List and explain any 3 schemes in supporting startups in the biotech sector. (10 Marks)
- b. Write a note on the Market feasibility study, Technical feasibility study and its impact on project management. (10 Marks)

Module-5

- 9 a. Elaborate the Biosafety concerns at the levels of individuals, institutions, society and region. (08 Marks)
- b. Explain the role of FDA in regulatory affairs. (08 Marks)
- c. Examine the relationship between risk, hazard exposure and safeguards. (04 Marks)

OR

- 10 a. What is the role of Indian DSIR? Broadcast the different events from DSIR for nation development. (12 Marks)
- b. What are the different schemes and proposals under AYUSH of India? (08 Marks)

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