

## Model Question Paper-1 with effect from 2021-22 (CBCS Scheme)

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**Sixth Semester B.E. Degree Examination**  
**Subject Title: Bio-business Management and**  
**Entrepreneurship**

Time : 3 hours

Max marks: 100

Note : Answer any FIVE full questions, choosing ONE full questions from each module					
<b>Module-1</b>					
1	a.	What are the components of a SWOT analysis for the Biobusiness sector in India?	CO1	L1	10
	b.	Explain the main barriers faced by the Biobusiness sector, including regulatory challenges, technological limitations, and market access issues.	CO1	L2	10
Or					
2	a.	What are small scale industries? Provide a list of their characteristics.	CO1	L1	10
	b.	Using the Biobusiness sector as an example, explain the various barriers that hinder its growth and development.	CO1	L2	10
<b>Module-2</b>					
3	a.	Why does the plant tissue culture unit hold potential for the Biobusiness sector? Provide reasons to support your answer.	CO1	L1	10
	b.	List the market potential of bioethanol and discuss how it adds value to agriculture waste.	CO2	L2	10
Or					
4	a.	Why is the poly house culture technique deemed attractive for biobusiness, and what are the underlying reasons for its appeal?	CO1	L1	10
	b.	Explain the high potential of herbal bulk drug production for Bio business.	CO2	L2	10
<b>Module-3</b>					
5	a.	Write brief explanations on: i) Bio-remediation for industrial pollution. ii) Bio-pesticide production	CO2	L2	10
	b.	Provide detailed explanations for the following: i) Analyze the business opportunities associated with stem cell culturing. ii) Evaluate the potential for entrepreneurship in single-cell protein production.	CO2	L3	10
Or					
6	a.	Explain the business opportunities and challenges involved in microbe-enriched compost production	CO2	L2	10
	b.	Elaborate on the process of probiotic product development, and assess its market potential.	CO2	L3	10
<b>Module-4</b>					
7	a.	Provide a detailed account of the operational biotech parks in India, including their objectives, facilities, and contributions to the biotechnology sector's development.	CO3	L3	10
	b.	Compare and contrast the various startup schemes proposed by	CO3	L4	10

		the Indian Government, analyzing their objectives, eligibility criteria, benefits, and impact on fostering entrepreneurship in the country			
Or					
8	a.	Discuss the principles underlying the process of learning, licensing, and technology transfer in the context of biotechnology or any relevant industry, and evaluate the key factors that influence their effectiveness in facilitating innovation and commercialization.	CO3	L3	10
	b.	Analyze the criteria and methodologies involved in project identification and selection within the context of biobusiness or any relevant industry, and evaluate the significance of effective project selection in ensuring long-term success and sustainability.	CO3	L4	10
<b>Module-5</b>					
9	a.	Outline and analyze the regulatory norms established by AYUSH for herbal drugs, and discuss their implications on the herbal drug industry in terms of quality control, safety standards, and market access."	CO4	L3	10
	b.	Examine and evaluate the ethical implications associated with biotechnology research and innovation, considering issues such as genetic engineering, bioprospecting, and bioethics, and discuss the ethical frameworks and principles guiding decision-making in the field.	CO4	L4	10
Or					
10	a.	Analyze the multifaceted role of the FDA in regulating biotech products, and evaluate the impact of FDA regulations on the biotechnology industry and public health.	CO4	L4	10
	b.	Describe and analyze the measures individuals can take to address biosafety concerns in minimizing risks to both individuals and the environment.	CO4	L3	10