

## Model Question Paper-1 with effect from 2019-20 (CBCS Scheme)

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### Fifth Semester B.E. Degree Examination Bio-business and Entrepreneurship

TIME: 03 Hours

Max. Marks: 100

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

Module – 1			
Q.1	(a)	Describe on important Stages in an Entrepreneurship Process	10
	(b)	Describe the Important Role of entrepreneurs in Economic Development of a Country	10
<b>OR</b>			
Q.2	(a)	Explain on Different Modes/Formats of Entrepreneurship in India and their barriers	06
	(b)	Define on Small scale industries, what are its typical Characteristics	08
	(c)	Illustrate on Market and Technical Feasibility Study of a Small Scale Industry (6m)	06
<b>Module – 2</b>			
Q.3	(a)	Explain the Scope and production Opportunity on Plant cell and tissue culture technique	10
	(b)	Explain with Beneficial Opportunities and market trends in terms of Polyhouse culturing	10
<b>OR</b>			
Q.4	(a)	Discuss in details the Production and Market Trends of Nutraceuticals	10
	(b)	Illustrate the Integration of system biology and use of Biosensor in Agri management.	10
<b>Module – 3</b>			
Q.5	(a)	Explain on Global Scope and production Opportunities in Biopesticide/insecticide	10
	(b)	Illustrate on the steps involved in the Industrial Production of Single cell protein and secondary metabolite.	10
<b>OR</b>			
Q.6	(a)	Explain the Scope and production Opportunity on Fermented products-Probiotic and Prebiotics.	8
	(b)	b. Determine the importance on Monoclonal antibodies in Pharmaceuticals	7
	(c)	c. Write Short note on Microbial Genomics Contact Research	5

<b>Module – 4</b>			
<b>Q.7</b>	<b>(a)</b>	Discuss in Detail on structural organization and Initiatives from BIRAC and BISEP Programs	10
	<b>(b)</b>	Briefly describe the activities taken care by Department of Biotechnology in India Innovations	10
<b>OR</b>			
<b>Q.8</b>	<b>(a)</b>	List and explain on the Guidelines by Planning Commission for making a Project report	8
	<b>(b)</b>	Describe with an Example the implement of Network Analysis by CPM/PERT method	8
	<b>(c)</b>	Discuss in detail on the various Project Feasibility Studies in PMS.	4
<b>Module – 5</b>			
<b>Q.9</b>	<b>(a)</b>	What is the role of Indian DSIR? Broadcast the different events from DSIR for nation development	10
	<b>(b)</b>	b. What are the different schemes and Proposals under AYUSH and FSSAI of India	10
<b>OR</b>			
<b>Q.10</b>	<b>(a)</b>	How does Public education could be addressed for generating new forms of life through Biotechnology?	6
	<b>(b)</b>	Does the Ethical concerns of biotechnology research and innovation is mandate? Justify	8
	<b>(c)</b>	Explain on the regulatory issues of Cartagena protocol on Biosafety management	6
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Table showing the Bloom's Taxonomy Level, Course Outcome and Programme Outcome				
Question		Bloom's Taxonomy Level attached	Course Outcome	Programme Outcome
Q.1	(a)	L2	CO1	PO12
	(b)	L2	CO1	PO12
Q.2	(a)	L1	CO1	PO12
	(b)	L1	CO1	PO12
	(c)	L2	CO1	PO12
Q.3	(a)	L2	CO1	PO10
	(b)	L2	CO1	PO10
Q.4	(a)	L2	CO1	PO10
	(b)	L1	CO1	PO10
Q.5	(a)	L1	CO1	PO10
	(b)	L2	CO1	PO10
Q.6	(a)	L3	CO1	PO10
	(b)	L1	CO1	PO10
	c	L1	CO1	
Q.7	(a)	L1	CO3	PO9
	(b)	L1	CO2	PO11
Q.8	(a)	L1	CO3	PO9
	(b)	L2	CO2	PO11
	(c)	L1	CO3	PO9
Q.9	(a)	L1	CO4	PO8
	(b)	L1	CO4	PO8
Q.10	(a)	L3	CO4	PO8
	(b)	L2	CO4	PO8
	(c)	L1	CO4	PO8
Bloom's Taxonomy Levels	<b>Lower order thinking skills</b>			
	Remembering (knowledge): □ <sub>1</sub>	Understanding Comprehension): □ <sub>2</sub>	Applying (Application): □ <sub>3</sub>	
	<b>Higher order thinking skills</b>			
	Analyzing (Analysis): □ <sub>4</sub>	Valuating (Evaluation): □ <sub>5</sub>	Creating (Synthesis): □ <sub>6</sub>	



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Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

Module – 1			
Q.1	(a)	Discuss the SWOT analysis of BT industry.	06
	(b)	Highlight the concept of entrepreneurship and substantiate the process of evolution and development of entrepreneurship.	08
	(c)	Describe the role of entrepreneurs in economic development.	06
<b>OR</b>			
Q.2	(a)	Describe the need and rationale and characteristics of SSIs.	06
	(b)	Describe the stages of entrepreneurial process.	08
	(c)	Discuss the Market Feasibility study in the context of Biobusiness.	06
<b>Module – 2</b>			
Q.3	(a)	Elaborate the business potential of bioethanol production.	07
	(b)	Describe the importance of integration of systems biology for agricultural development.	08
	(c)	Discuss the marketing strategies of nutraceuticals.	05
<b>OR</b>			
Q.4	(a)	Discuss the challenges and scope of value added herbal products.	07
	(b)	Elaborate the significance of biosensor development in Agri management.	08
	(c)	Discuss the schemes of polyhouse culture.	05
<b>Module – 3</b>			
Q.5	(a)	Assess the challenges and scope of Single Cell Protein.	07
	(b)	Discuss the business opportunity in Pollution Monitoring	06
	(c)	Analyze the essential requirement of Integrated Compost Production.	07
<b>OR</b>			
Q.6	(a)	Assess the significance of contact research in Microbial Genomics.	07
	(b)	Elaborate the schemes of Integrated Compost	06
	(c)	Analyze the marketing strategies of Stem Cell Production.	07

<b>Module – 4</b>			
<b>Q.7</b>	<b>(a)</b>	Enumerate the role and significance of BiSEP in fostering Biobusiness.	06
	<b>(b)</b>	Differentiate between PERT and CPM in detail.	06
	<b>(c)</b>	Elaborate the importance of Business Incubation Support Schemes with examples.	08
<b>OR</b>			
<b>Q.8</b>	<b>(a)</b>	Enumerate the start-up schemes in Indian Government	06
	<b>(b)</b>	In detail assess the process of project identification and selection.	06
	<b>(c)</b>	Discuss the various types of technology transfer with suitable examples.	08
<b>Module – 5</b>			
<b>Q.9</b>	<b>(a)</b>	Elaborate the Biosafety concerns at the level of individuals, institutions, society and region.	08
	<b>(b)</b>	Explain the role of FDA in regulatory affairs.	07
	<b>(c)</b>	Examine the relationship between risk, hazard, exposure and safeguards	05
<b>OR</b>			
<b>Q.10</b>	<b>(a)</b>	Elaborate with suitable examples the ethical concerns of Biotechnology research and innovation.	08
	<b>(b)</b>	Write an explanatory note on FSSAI and explain the FSS Act.	07
	<b>(c)</b>	Differentiate between rational and subjective perceptions of risk and benefits.	05
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	(b)	L2	CO1	PO10
	(c)	L2	CO1	PO10
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Q.7	(a)	L4	CO3	PO9
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