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VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN
 [AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI]
 Elayampalayam – 637 205, Tiruchengode, Namakkal Dt., Tamil Nadu.

Question Paper Code: 9019

B.E. / B.Tech. DEGREE END-SEMESTER EXAMINATIONS – MAY / JUNE 2024

Fifth Semester

Computer Science and Engineering

U19BTOE3 – BIO BUSINESS

(Regulation 2019)

Time : Three Hours

Maximum : 100 Marks

Answer ALL the questions

Knowledge Levels (KL)	K1 – Remembering	K3 – Applying	K5 - Evaluating
	K2 – Understanding	K4 – Analyzing	K6 - Creating

PART – A

(10 x 2 = 20 Marks)

Q.No.	Questions	Marks	KL	CO
1.	What are the characteristics of budgeting?	2	K2	CO1
2.	Point out the future growth Indian biotechnology industry.	2	K4	CO1
3.	What is meant by mushroom spawn?	2	K1	CO2
4.	Define silvi culture.	2	K1	CO2
5.	Define biochip.	2	K1	CO3
6.	List out few value added product development from agro and organic substances.	2	K2	CO3
7.	What is licensing and Branding?	2	K1	CO4
8.	List out the few bank loans for women entrepreneur in India.	2	K1	CO4
9.	What are Intellectual Property rights?	2	K1	CO5
10.	What is fear of unknown in ethics?	2	K1	CO5

PART – B

(5 x 13 = 65 Marks)

Q.No.	Questions	Marks	KL	CO
11. a)	Brief the scope, need, demand and market potential of biotechnology industries in India.	13	K2	CO1

	(OR)			
	b) Explain the steps involved in business plan.	13	K2	CO1
12.	a) Elaborate vermiculture technology.	13	K2	CO2
	(OR)			
	b) Give a detailed notes on mushroom cultivation.	13	K3	CCO
13.	a) What is fermentation technology? And explain any four types of fermenters.	13	K2	CO3
	(OR)			
	b) Write in detail on types of biofuels, its production and their advantages and disadvantages.	13	K2	CO3
14.	a) Brief any four schemes for women entrepreneurs in India.	13	K2	CO4
	(OR)			
	b) Brief various opportunities from government & nongovernment organizations for women entrepreneur in India.	13	K1	CO4
15.	a) Explain in detail on ethical concerns of biotechnology research and innovation.	13	K1	CO5
	(OR)			
	b) Explain the role of Regulatory affairs in Bio business.	13	K1	CO5

PART – C

(1 x 15 = 15 Marks)

Q.No.	Questions	Marks	KL	CO
16.	a) Elaborate the recent development of IOT in agriculture.	15	K4	CO3
	(OR)			
	b) Describe the steps involved in biotechnology product development.	15	K2	CO1