BIOTECHNOLOGY

Academic year 2023-2024 (Odd Sem)

Sem | III Semester | Closed Book Offline Test-3 |
Bio Safety Standards and Ethics (Basket course)

SI.	Questions (Test)	M	BT-L	CO
No				P
1.	Explain on various food processing techniques	10	2	4
2	Illustrate on the following:	10	4	4
	Pasteurization Pasteurization			1
2	Frying Describe three levels of packaging the food products	10	4	4
3	Explain the effects of poor packaging on food products, add a note on smart packing			4
5	Write Explanatory notes on Freezing De hydration Homogenization	10	2	

BT-L-Blooms Taxonomy, CO-Course Outcomes, M-Marks

					-	Laca	Tra	L2	L3	L4	L5	1.0
	Particu	lars	COI	CO2	CO3	CO4	Li		-	20		-
3. Kurden	1 60 110 0	TOTAL TOTAL				50	244	30	-	20		
Marks Distribution	Test	Max Marks	er.						1	1		

Technological Demonstration

BIOTECHNOLOGY

Academic year 2023-2024 (Odd Sem)

Dust	January 8, 2024	Maximum Marks	1 50
Course Code	BTZ3ZAT	Duration	20
Sem	III Semester	Closed Book Offline Test	90 mm

Questions (Test)	M	BT-L	00
Elaborate on various bio hazzerds from nature	10	2	1
List out and discuss biosafety levels with a neat triangular diagram	10	4	3
Explain with a help of a neat diagram, biosafety cabinet B2	10	4	1
Differentiate the bio safety cabinets J, II and III	10	2	1
Give details on GMO and their applications in various fields	10	2	2
	Elaborate on various bio hazards from nature List out and discuss biosafety levels with a neat triangular diagram Explain with a help of a neat diagram, biosafety cabinet B2 Differentiate the bio safety cabinets I, II and III	Elaborate on various bio hazards from nature 10 List out and discuss biosafety levels with a neat triangular diagram 10 Explain with a help of a neat diagram, biosafety cabinet B2 10 Differentiate the bio safety cabinets I, II and III 10	Elaborate on various bio hazards from nature 10 2 List out and discuss biosafety levels with a neat triangular diagram 10 4 Explain with a help of a neat diagram, biosafety cabinet B2 10 4 Differentiate the bio safety cabinets I, II and III 10 2

BT-L-Blooms Taxonomy, CO-Course Outcomes, M-Marks

	Particulars		COI	C02	CO3	C04	LI	1.2	L3 L4 L5		LS	1.6	
Marks Distribution	Test	Max	40	10	277	1073	12	1	30	20	-	-	
		Marks											

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RV COLLEGE OF ENGINEERING®

(An Autonomous Institution Affiliated to VTU) V Semester B. E. Examinations April/May-2024

Biotechnology

BIOSAFETY STANDARDS AND ETHICS

Time: 03 Hours

Instructions to candidates:

Maximum Marks: 100

1. Answer all questions from Part A. Part A questions should be answered in first three pages of the answer book only.

2. Answer FIVE full questions from Part B. In Part B question number 2 is compulsory. Answer any one full question from 3 and 4, 5 and 6, 7 and 8, 9 and 10.

		PART-A	M	BT	CO
1	1.1	List the advantages of preserving of food with examples	02	1	1
7	1000000	Mention the dangerous temperature of food preservation	02	1	1
	1.2	Mention the dangerous temperature of lead production the examples of food borne diseases.	02	1	3
	1.3	Give the importance of HEPA filters and examples	02	1	4
	1.4	Give the importance of FIETA me is and examples	02	1	1
	1.5	Write the role of antibiotics in Poultry	02	1	3
	1.6	What is GHP? Explain its importance	02	1	4
	1.7	What is food sterilization? Give examples.	02	2	1
	1.8	What is biosafety committee and its functions?	02	2	1
	1.9	List out the unit operations applicable in food processing	00	1	1
		with suitable examples.	02	1	1
	1.10	Differentiate between LAF and Biosafety Cabinet	02	2	2

PART-B

2	а	Define biohazard and mention the various biohazards with example.	08	2	1
	b	Explain various biosafety levels using a triangular diagram	08	2	2
3	a b	Mention various functions of IBSC with examples Define GMO. Explain 1st Generation, 2nd Generation GM food.	08	3	2
		OR		13%	
4	a b	Write short notes on i)RCGM ii)GEAC Discuss on the salient features of Cartagena Protocol	08 08	1 1	3 2
5	а	List out the important food safety Standards and	08	2	2
	ь	Mention the possible pathogens that can contaminate food and how do you prevent food contamination.	08	1	1
		OR	100		

				1	1
6	a	Explain 7 basic principles of Hazard Analysis Critical Control Point (HACCP).	08	1	4
				277	
	b	Explain various biochemical analysis of food.	08	2	4
7		Explain chemical and physical method of food processing	16	2	2
					14 1
		OR			
				100	
8	a	Classify food packaging methods and write an			
01 33		explanatory note on the novel food packaging methods.	08	4	4
	b	Write short notes on GMP and GLP	08	1	3
1000		The same and the s			
9	a	Discuss in detail about food and Drug administration.	08	5	2
	b	Write explanatory notes on food production and			
1		economics. Why is food production important to the			100
1		economy?	08	2	3
188		ceonomy:			
3		OR			
4			= 196 17	1000	1000
10) a	Differentiate between clinical ethics and bioethics.	08	3	3
10		Discuss the limits of additives to be added to the food as		1881	0 6 6
19	b	per the standards.	08	4	4
		Der the Standards.	70.000		