

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

Maximum Marks: 100

Instructions to candidates:

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

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

PART-B

2	a	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	Mention various functions of IBSC with examples	08	3	2
	b	Define GMO. Explain 1 st Generation, 2 nd Generation GM food.	08	2	1
OR					
4	a	Write short notes on i)RCGM ii)GEAC	08	1	3
	b	Discuss on the salient features of Cartagena Protocol	08	1	2
5	a	List out the important food safety Standards and Regulations	08	2	2
	b	Mention the possible pathogens that can contaminate food and how do you prevent food contamination.	08	1	1
OR					

6	a	Explain 7 basic principles of Hazard Analysis Critical Control Point (HACCP).	08	1	4
	b		08	2	4
7		Explain chemical and physical method of food processing	16	2	2
OR					
8	a	Classify food packaging methods and write an explanatory note on the novel food packaging methods.	08	4	4
	b		08	1	3
9	a	Discuss in detail about food and Drug administration. Write explanatory notes on food production and economics. Why is food production important to the economy?	08	5	2
	b		08	2	3
OR					
10	a	Differentiate between clinical ethics and bioethics. Discuss the limits of additives to be added to the food as per the standards.	08	3	3
	b		08	4	4