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Module No.	Question No.	Question	K Level	CO
1	11.a.	Explain the scope and applications of biotechnology.	K2	CO1
		(OR)		
	11.b.	Describe the structure and functions of DNA and RNA.		
2	12.a.	Summaries the steps involved in gene cloning.	K2	CO2
		(OR)		
	12.b.	Discuss the role of restriction enzymes and ligase in recombinant DNA technology.		
3	13.a.	Describe the microbial production of enzymes with examples.	K3	CO3
		(OR)		
	13.b.	Enlist the immobilized enzymes and their applications in food industry.		
4	14.a.	Enumerate the cultivation and applications of single cell protein.	K4	CO4
		(OR)		
	14.b.	Describe plant tissue culture techniques and their applications.		
5	15.a.	Briefly explain the production of amino acids and organic acids using biotechnology.	K5	CO5
		(OR)		
	15.b.	Discuss nanotechnology and its applications in the food industry.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

(3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Explain the genetic engineering and its applications.	K3	CO1
2	17	Enumerate recombinant DNA technology and its importance.	K3	CO2
3	18	Illustrate the industrial applications of microbial enzymes in the food industry.	K4	CO3
4	19	Explain the mushroom cultivation, harvesting, processing, and applications.	K5	CO4
5	20	Discuss industrial biotechnology with reference to production of polysaccharides and vitamins.	K5	CO5

Z-Z-Z END