# PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

#### MSc DEGREE EXAMINATION MAY 2024

(Second Semester)

#### Branch - FOODS AND NUTRITION

## MAJOR ELECTIVE COURSE - I: FOOD BIOTECHNOLOGY

Time: Three Hours

Maximum: 75 Marks

### SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

 $(10 \times 1 = 10)$ 

		ALL questions can			
Module No.	Question No.	Question		K Level	СО
1	1	Choose the function of DNA. a) Carrying gene information c) Transform RNA	b) Repairing tissues d) Reconnect RNA strands	K1	CO1
	2	Extend CDNA. a) Convert DNA c) Carrier DNA	b) Complex DNA d) Copy DNA	K2	CO2
2	3	Select the fundamental require a) Two oligonucleotide primer b) DNA segment to be amplifi c) A heat-stable DNA polymer d) All of the above	s ed	K1	CO2
	4	Find a component that is prese animal cell. a) Cytoplasm c) Cell wall	nt in plant cellbut not in b) Cell membrane d) Nucleus	K2	CO2
3	5	Identify the component that he a) Sulphur Dioxide c) Carbon Dioxide	elps for raising dough. b) Hydrogen d) Oxygen	K1	CO3
	6	Which of the following organifermentation?  a) Pseudomonas c) Saccharomyces	sm is used inalcoholic  b) Aspergillus d) Penicillium	K2	CO3
4	7	Which of the following is not manufacture?  a) Drying c) Withering	a step in blacktea b) Rolling d) Lump Formation	K1	CO3
	8	Indicate the following is not a a) Dietary Fibre c) Omega 3	functional food. b) Probiotics d) Pills	K2	CO4
5	9	Name the branch of botanydeals with development of improved plant varieties.  a) Plant Embryology b) Plant Breeding c) Plant Biochemistry d) Plant Anatomy		K1	CO5
	10	Who is known as the father of a) Bonner c) Haberlandt	f tissue culture? b) Laibach d) Gautheret	K2	CO5

# Answer ALL questions

ALL questions carry EQUAL Marks

 $(5\times7=35)$ 

Module	Question	Question	K Level	СО
No.	No.	27274	-	
	11.a.	Choose the functions of DNA.		
	(OR)		K2	CO2
1	11.b.	Summarize the basic principles of transcription.		
2	12.a.	Analyze the basic of concepts of GMO's in	1	
		food production.		
	(OR)		K3	CO5
	12.b.	Organize legal frameworks of production of		
	12.0.	food stuffs.		
3	+	Illustrate the process of making alcoholic		604
	13.a.	beverages with the use of yeast.		
	(OR)		K3	CO4
	13 h	13.b. Sketch the process of making bread and related products with the use of yeast.		
	15.0.			
4	14.a.	Show the coffee fermentation process.		
	(OR)		K2	CO4
	1 Listing			
	14.b.	State the application of plant cell.		
5	15.a. State the application of plant cell.			CO5
	151	C i in angonio		
	15.b.			
		farming.		

# SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

 $(3 \times 10 = 30)$ 

Module	Question	Ouestion	K Level	СО
No.	No.	Construct the properties of protein expression	K2	CO2
1	16	vectors		000
2	17	Evaluate the ethical issue of food biotechnology.	K3	CO3
		Create bacteria-based products and its process with	K4	CO4
3	18	reference to dairy Industry.		
		Elucidate on application and commercial production	K4	CO4
4	19	of Bacteriocins.		
5	20	Construct modern applications of Nutrigenomics in Food biotechnology.	K4	CO5