PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2025

(Second Semester)

${\bf Branch-FOODS~AND~NUTRITION}$

NUTRITION RESEARCH METHODS

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

 $(10 \times 1 = 10)$

		ADD questions carry EQUAL mains (10	X 1 -	
Module No.	Question No.	Question	K Level	со
	1	Name the Instrument used for measuring energy metabolism		
1		in animal.	K1	COI
]	a) Respiration calorimeter b) Bomb calorimeter		001
		c) Psychometric chamber d) None	ļ	
	2	Extend CTRI.	ł	ł
		a) Clinical Trials Registry India	770	
		b) Combined Trials Registry India c) Clinical Trials Register Institute	K2	CO1
		d) Combined Trials Register Institute	}	!
	3	Which of the following is not a fat soluble vitamin?		
2		a) Vitamin A b) Vitamin B	K1	CO2
_		c) Vitamin D d) Vitamin E	12.1	1 002
ľ	4	Show what component is labeled with radioactive isotope for		
ł	·	deduction?		
		a) Antibodies b) Enzymes	K2	CO2
		c) Antigen d) Substrates		
	5	Which among the following is the benefit of using simple		
3		random sampling?		}
		a) The results are always representative.	77.1	gos.
; ;		b) Interviewers can choose respondents freely.	K1	CO3
		c) Informants can refuse to participate.	ı	
		a) we can calculate the accuracy of the results.		
	6	Outline among these, which sampling is based on equal probability?		
		a) Simple random sampling b) Stratified random sampling	K2	CO3
		c) Systematic sampling d) Probability sampling	ľ	1
	7	What is the primary method of dietary assessment used in		
4	1	epidemiological studies?	K1	CO4
		a) Weighed diary b) Unweighed diary	VI	CU4
Ļ		c) 24-hour recall d) Diet history		
		Show which of the following is the appropriate indicator of		
ł	I	calcium status?	K2	CO4
ļ		a) ionized serum calcium b) total serum calcium	13,2	
		c) urinary calcium d) none of the above		
_ [9	Which among the following is major percentage in body?		
5	,	a) water b) Protein	K1	CO5
<u> </u> -		c) Fat d) Carbohydrate		<u> </u>
		Show which of the following can affect body composition?	772	005
		a) Diet b) Physical activity c) Age factor d) All the charge	K2	CO5
	K	c) Age factor d) All the above		

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SECTION - B (35 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 7 = 35)$

Module No.	Question No.	Question	K Level	CO
	11.a.	Distinguish between In vitro and In vivo Nutritional studies.		
1	(OR)			
	11.b.	Categorize the methods of nutritional studies.	K4	CO1
	12.a.	Outline principle of bioavailability of water soluble vitamins.		
2		(OR)	K2	CO2
	12.b.	Explain the uses of stable isotopes in nutrition studies.		
3	13.a.	Identify the factors to be considered while storing food samples for nutrition studies.		, i
	(OR)		K3	CO ₃
	13.b.	Identify the uses of food composition data.		
	14.a.	Highlight on the types of diet surveys.		
4	(OR)			
	14.b.	Analyze the term growth monitoring.	K4	CO4
	15.a.	Outline about underwater weighing.	КЗ	
5		(OR)		CO5
	15.b.	Trace the anthropometric indicators of adiposity.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

 $(3 \times 10 = 30)$

Module No.	Question No.	Question	K Level	CO
1	16	Analyze the parameters to be considered while animals are used in nutritional studies.	K4	CO1
2	17	Examine radioimmuno assay principle and their application.	K4	CO2
3	18	Explain origin and progression of food composition table of India.	K5	CO3
4	19	Evaluate biochemical assessment of nutrition status.	K5	CO4
5	20	Discuss about Bioelectric Impedence method.	K6	CO5