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PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2022

(First Semester)

$Branch-FOODS\ AND\ NUTRITION$

		<u>A</u>]	DVANCED NUTRITION	<u> - I</u>
•	Ti	me: Three Hours		Maximum: 50 Marks
			SECTION-A (5 Marks)	
÷			Answer ALL questions	(5-1-5)
		ALL q	uestions carry EQUAL ma	$ (5 \times 1 = 5) $
1	F	ind the acid produced i	n anaerobic metabolism.	
	(i		(ii) lactic acid	
•	(i	ii) pyruvic acid	(iv) acetic acid	
2	N.	hich plays a catalytic	role in citric acid cycle?	
,) Acetyl co A	(ii) citrate	
	(i	ii) oxaloacetate	(iv) alpha keto-	glutarate
3	M	Iention the predomina	nt site of fatty acid synthes	sis.
	(i		(ii) pancreas	
	(i	ii) kidney	(iv) peripheral t	issues
4	C	hoose the mechanism	for transporting amino acid	ls in cells.
	(i) Active Transport	(ii) Passive Tra	ansport
	(i	ii) Simple diffusion	(iv) Facilitated	diffusion
5	S	tate the fuel source of	brain in an absorptive star	te.
÷) Glucose	(ii) galactose	
٠	(i	ii) fructose	(iv) Dextrin	
	. '		SECTION - B (15 Mark	
•		ATT	Answer ALL Questions	
		ALL	questions carry EQUAL m	arks (3 x 3 - 13)
6	a	Determine the role of	High Energy Phosphate in	n energy storage.
			OR	
	b	Evaluate renal regula	tion of pH.	
7	a	Discuss on Glucose t	ransporters.	
			OR	
	b	Show the binding ab		
8	a	Determine the biolog	rical importance of lipids.	
	1.	Ermlein Iratana hadv	OR	
•	b	Explain ketone body		a suitable evample
9	a	Proteins are immune	protectors – Illustrate with OR	i suitable example.
	b	Recommend the met		
10	0		specific metabolism durin	g fasting.

State the thermic effect of food.

22NDP102/ 18NDP02 Cont...

SECTION -C (30 Marks)

Answer ALL questions ALL questions carry EQUAL marks

 $(5 \times 6 = 30)$

11 a Elucidate on components of cell.

OR

- b Analyse the role of regulatory peptides in digestive process.
- 12 a Enumerate on Glycogenolysis.

ΩR

- b Construct the characteristics of Functional Fibre.
- 13 a Evaluate the role of liver in lipid metabolism.

OR

- b Elucidate on brown fat thermogenesis.
- 14 a Catagorize the structure of protein.

OR

- b Discuss on protein transcription and protein translation.
- 15 a Analyse the interrelationship between carbohydrate and lipid metabolism.

OR

b Predict the hormonal influences in body composition regulation.

Z-Z-Z

END