

School: School of Science Program/s: M.Sc Life Science Year: 2nd Semester: 3rd

Examination: End Semester Examination

Examination year: December-2021

Course Code: LS-227 Course Name: Nutritional Biochemistry - II

Date: 07/12/2021

Total Marks: **Time:** 08:30 am to 10:30 am Total Pages: 02

Instructions:

→ There are total 6 questions in the paper. Necessary options are given in the paper.

→ Read the questions carefully before answering

→ Draw diagrams wherever necessary

Q. No.	Details	Marks	COs*	BTL
Q.1	Choose the correct option.	3		i
	1. Describe body composition			
	1. The relative proportions of protein, fat, water, and mineral components in the body that make up total body weight			
	2. The relative proportions of protein, fat, water (excluding skin			
	and bone) in the body that make up total body weight			
	3. The relative proportions of protein, fat (excluding skin and bone			
	and water) in the body that make up total body weight			
	4. The relative proportions of water, and mineral components in the			
1	body that make up total body weight 2. What is fat-free mass and what does it consist of?			
	1. Body mass that only takes fat mass into consideration			BIT.
	2. Body mass that consists of free fatty acids		COL	B12
	3. Body mass that does not take fat mass into consideration			B13
	(contains water, protein, bone minerals)			
	4. Body mass only considering the fat surrounding the abdominal region	181		
	3. What stable isotope is commonly given for the measurement of total			
	body water?			
	1. Deuterium			
	2. Carbon 13			
	3. Nitrogen 15	7.7		
	4. Oxygen 18			
-				
Q.2	Fill in the blanks	2		
	1. RDA for adults are based on sex, body weight and ; Also In		COI.	B11.
	India, the RDA's are provided by		CVI.	ВΓ2,
1	2. The RDA for energy is expressed as			B13

		3	[
Q.3	True or False with justification	.)	COL.	ви.
	1 Dietetics and clinical dietetics are synonyms of each other.		CO.	BIL BIL
	The feed evolunge system limits the variety of food in a group.	4		
	 Food borne-diseases cannot happen through chemical or toxins in food. 			Paga Pagarane
Q.4	Answer the question in brief	4		
ζ			2251	BII.
	1. State factors leading to acidosis in an organism.		(0)	BT2. BI3
	2. Emphasis the significance of Nitrogen Balance.		1	Dire
	Z. Emphasis at ag			
0.5	Answer the question in detail	8		
Q.5	Answer the question in detail			
	1. Write a note on anthropometric methods for body composition.			Bii.
	Write a note on anthropometric methods for body composition. Outline a dietary guideline as per ICMR-RDA for an adolescent girl		COL	B12.
	suffering from anemia and state reasons for selecting a particular food			BIB
	component in her diet.		Ì	
	component in her diet.			
		20		
Q.6	Long answer type questions			
	1 WI at it malautrition Evaluin			
	1. What is malnutrition. Explain:			
	- Symptoms - Causes			
	- Causes - Risk Factors			
	- RISK Factors OR			
	Mention 5 mitigating steps taken by Indian government to curb the	i.		
	effect of malnutrition.			
	2. Explain how the food can get spotted with few examples.		COL.	BIII.
2	Mention some of the food preservation methods.		CO3	BT2
.60	3. Explain with example:			
	- Diet			
	- Diet - Diet therapy			
	- Clinical diet			1
	- Therapeutic diet			
	4. What is food exchange list and list down its some advantages.		T. T	
	4. What is food exchange list and list down its some days and list down its down its some days and list down its down			
	Explain with an example, how modification in "Quantity" and			
	"Nutrient" can help patients as therapy.			
	"Nutrient" can neip patients as therapy.			

***********End of Question Paper*******