EX/FTBE/T/212/2017(S)

B.E (FTBE) SECOND YEAR, 1ST SEMESTER SUPPLEMENTARY EXAM-2017

BIOCHEMISTRY AND NUTRITION-II

PART - I (50 MARKS)

Answer Q1 and Any Two from the rest

Q1.	a. Name and write the structures of carotenoids that exhibit pro-vitamin A activity.b. What is RDA? State RDA values for any two vitamins and two minerals.c. Diagrammatically show sources of minerals in foods.d. How is availability of biotin linked to egg consumption?	6 6 5 3
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Q2.	a. What is sunlight off-flavor? How can this off-flavor generation be averted?b. In which form is thiamine present in the human body? What factors influence stathiamine?c. Write the reactions showing sequential one-electron transfer in L-ascorbic acid? the forms that show vitamin C activity.	2+4
Q3.	 a.Diagramatically show how essential minerals can be grouped by chemic bioavailability, occurrence and nutritional deficiency. b. Which is the major naturally occurring form of folate in foods? What form of Form preferred in food fortification and why? c. What properties of Ca render it as one of the most important mineral in our diet? 	· 5
Q4.	b. What are the bioavailability issues related to Fe in the human body? Why is v supplement not recommended with a Fe-rich diet?	+3

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B. FTBE 2nd YEAR 1st SEM SUPPLEMENTARY EXAM – 2017

BIOCHEMISTRY & NUTRITION II

Time: Three hours

Full Marks: 100

Part II (Marks- 50)

Use Separate Answer scripts for each group

Answer any five questions

Q1.	a. What are the characteristics of a "Reference woman"?	3
	b. What is BMI?	3
	c. Write the full form of: ACU, RDA.	2
	d. Draw the food pyramid.	2
Q2.	a. Give the definition of health.	3
	b. What are the dimensions of health?	5
	c. What is junk food?	2
Q3.	a. What do you mean by nutraceutical?	2.5
	b. What is antioxidant?	2.5
	c. Write the name of antioxidant compounds in coffee beans and rice bran oil.	2
	d. Why fish oil consumption is good for cardiac patients?	3
Q4.	. Calculate the carbohydrate, protein and fat requirements of the following subject:	10
	Age-21 years, Gender- male, Height-5'5", Weight-67kg, Type of activity-Sedenta	ary.
O5.	. a. What is protein sparing action?	2
_	b. What is the difference between nutrient and nutrition?	3
	c. Write about physiological functions of fat.	5
06	a. What are the complications related to under nutrition?	6

b. What do you mean by geriatric food?	2
c. Write the role of protein in transport of nutrients in human body.	2
Q7. a. Define the term glycemic load?	3
b. Write the role of dietary fibre to control constipation and obesity.	.7
Q8. a. What are the differences between fortification and enrichment?	4
b. What do you mean by LBW baby?	3
c. 'Baking- the best method of cooking'- explain.	3

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