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B.Tech. Fifth Semester (CHE. Tech. (Food, P & P, O & P and Petro.) (CGS)

11029 : Sp. Tech.- II (Food Technology - II) : 5 FT 04

P. Pages: 2 AW - 3158 Time: Three Hours Max. Marks: 80 Answer three question from Section A and three question from Section B. Notes: 1. 2. Diagrams and Chemicals equations should be given wherever necessary. 3. Illustrate your answer necessary with the help of neat sketches. **SECTION - A** What are enzymes? Explain enzyme specificities. Give Examples. 1. 14 OR 2. State the factors influencing enzyme reactions. Give the effect of enzyme concentration on 14 enzyme reactions. 3. Explain Kreb's Cycle. State energetics in terms of ATP. 8 a) Explain the terms:-5 b) i) Glycolysis. Pentose Phosphate Pathway (PPP). ii) OR 8 Draw Urea Cycle. State its Importance. 4. a) 5 b) What do you mean by:-Oxidative deamination. Transamination i) ii) 8 Explain vitamin B₁ in terms of biochemical structure, sources, RDA & deficiency 5. a) symptoms. 5 b) Classify the vitamins. Give examples. OR Draw the structure of vitamin B₁₂. State its biochemical role. 8 6. a) 5 What are micro & macro minerals. Explain their functions. b) SECTION - B 14 What is BMR? State the factors affecting BMR. 7. OR 14

8.

How BMR is measured Clinically. State it's Importance.



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9.	a)	State the functions of foods.	8
	b)	Explain the RDA's of carbohydrates & Fat.	5
		OR	
10.	a)	What are the antinutritional factor's in foods.	8
	b)	State the methods to determine Nutritional Evaluation of proteins.	5
11.	a)	Explain Beer's Lampert's law of photometry.	8
	b)	State the techniques of biochemical analysis of foods.	5
		OR	
12.	a)	Explain the principle & working of spectrophotometer.	8
	b)	Differentiate between colorimetry & spectrophotometry.	5
