

57545



V SEMESTER B.Sc. EXAMINATION – MARCH/APRIL 2022

SCHEME: SEMESTER- CBCS

BIOCHEMISTRY

DSE - NUTRITION

Time: 03 Hours

Max Marks: 80

Instructions to Candidates: Answer any TEN questions from PART-A and any SIX questions from PART-B.

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PART- A

1.

2x10=20

- a) Write the calorific value of carbohydrates and lipids.
- b) Define specific dynamic action of foods.
- c) What is lactose intolerance?
- d) Name any two essential amino acids.
- e) What is positive nitrogen balance?
- f) Mention the causes of kwashiorkor?
- g) Differentiate between visible and invisible fat.
- h) Write the coenzyme forms of Riboflavin.
- i) What are microminerals? Give an example.
- j) Give any two examples for food adulterants.
- k) Name any two GIT hormones.
- l) Define balanced diet.

PART- B

6x10=60

2. a) Explain the energy expenditure at rest and work. 5
- b) Explain the factors affecting BMR 5
3. a) Write a note on dietary fibers. 6
- b) Give the nutritional classification of proteins with one example for each class. 4
4. a) Explain the role of DHA and EPA. 4
- b) Mention the dietary sources, daily requirement and biological functions of Vitamin-D. 6

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5. a) Give an account of hypervitaminosis. 5  
b) Discuss deficiency disorders of potassium and zinc. 5
6. a) Explain the absorption and transport of calcium. 5  
b) Write the biological role of copper and selenium. 5
7. a) Explain the distribution of water in body fluid compartments. 5  
b) Write the sources and harmful effects of Avidin and Lathyrus sativus. 5
8. a) Explain the digestion, absorption and transport of carbohydrates. 6  
b) Give the composition and functions of saliva. 4
9. Write short notes on:  
a) Functional foods in health and disease prevention. 6  
b) Biological role of Vitamin-C 4

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