



QP CODE: 19101045



Reg No :

Name :

B.Sc.DEGREE (CBCS) EXAMINATION, DECEMBER 2018

First Semester

B.Sc Food Science & Quality Control Model III

Core Course - FS1CRT01 - BASIC NUTRITION

2017 Admission (Reappearance)

0415C519

Maximum Marks: 80

Time: 3 Hours

Part A

Answer any **ten** questions.

Each question carries **2** marks.

1. Define and enlist macronutrients.
2. Report on electrolyte balance
3. Describe that how the water balance in the body can be maintained.
4. Role of fibre in preventing constipation.
5. Cite the theory of adaptation in PEM?
6. Discuss on supplementary value of proteins?
7. Make a list of enzymes involved in fat digestion.
8. what is osteomalacia.
9. Give the major sources of iron. What is the RDA of iron for an adult man and woman.
10. What is neurological cretinism.
11. Define energy.What is the unit of energy?
12. Make a short note on BMR.

(10×2=20)

Part B

Answer any **six** questions.

Each question carries **5** marks.

13. Define and classify food based on the nutritive value.
14. Recite on basic 5 food groups system and its role in meal planning.
15. Make a short note on the functions of water.





16. Explain monosaccharides, polysaccharides and oligosaccharides with examples.
17. Describe on amino acids. How can you classify protein, based on the amino acid content?
18. Discuss in detail about fats in the body and fats in food.
19. Give the risk factors of osteoporosis.
20. Explain the major sources, functions and deficiency of phosphorus.
21. Describe BMR and factors affecting BMR.

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **15** marks.

22. Analyze the ecological factors of malnutrition. What are the remedial measures for controlling malnutrition.
23. Summarize in detail about water balance, water depletion and water intoxication.
24. Make an essay on the sources, functions, RDA and deficiency disorder of niacin.
25. Applying the principles of calorimetry, how can you calculate the energy value of food. Explain the working of bomb calorimeter with the help of a diagram.

(2×15=30)

