

SET II
TB145540D

B. Sc DEGREE (C.B.C.S.S) EXAMINATION
Fifth Semester – October 2016
Core course -HSC5HNB -HUMAN NUTRITION AND BIOCHEMISTRY

(For B. Sc Home Science- 2015 admissions)

Time: 3 hours

Maximum: 60 marks

Part A (Short Answer Questions)

Answer **all** questions. Each question carries **1 mark**

1. Give the RDA for calcium in lactation.
2. Give the calorific values of macronutrients.
3. What is PUFA?
4. Write a brief note on zinc deficiency.
5. What is rickets?

(5x1 = 5 marks)

PART B (Brief Answer Questions)

Answer any **5 out of 8** questions. Each question carries **2 marks**

6. List the factors that affect RDA.
7. What is meant by physiological fuel value of foods?
8. Write any 4 important functions of carbohydrates.
9. Write a note on essential fatty acids.
10. What is a food guide pyramid?
11. Explain the effect of deficiency of biotin.
12. What is hyperkalemia?
13. What is the need for weaning?

(5 x 2 = 10 marks)

PART C (Essay)

Answer any **five out of eight** questions. Each question carries **5 marks**

14. What are the future challenges for nutrition research in Kerala.
15. Explain the factors affecting BMR.
16. Describe transamination and deamination reactions with suitable examples.
17. Explain how water balance is regulated in the human body.

(P.T.O)

18. Explain the Vitamin D deficiency disorders.
19. What is the importance of extrinsic factor?
20. Bring out the consequences of iron deficiency.
21. Discuss the significance of exclusive breast feeding for an infant.

(5 x 5 = 25 marks)

PART D

Answer any *two* questions out of *four*. Each question carries **10** marks

22. Define BMR. Describe different methods for measurement of BMR.
23. Explain β -oxidation of fat metabolism.
24. Write a note on the role of Vitamin D in maintaining blood calcium levels.
25. Write a note on the nutrient requirements of a lactating woman and mention the dietary modifications.

(2 x 10= 20 marks)