

SET III
TB145540E

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 iron for a pregnant woman.
2. Define Gross Calorific Value.
3. What are ketone bodies?
4. What is the role of sodium?
5. What is weaning?

(5x1 = 5 marks)

PART B (Brief Answer Questions)

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

6. Define Indian Reference Man.
7. What are the pre gastric factors affecting food intake?
8. Give the nutritional classification of amino acids.
9. What is PUFA? Give 2 foods rich in PUFA.
10. List out the functions of Vitamin K.
11. What is egg white injury factor?
12. What are goitrogens?
13. What are the requisites of a packed lunch for a school going child?

(5 x 2 = 10 marks)

PART C (Essay)

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

14. Discuss the current nutrition scenario in India.
15. Explain the principle and working of the bomb calorimeter.
16. Explain the types of dietary fibre and bring out its potential health benefits.

(P.T.O)

17. Explain the consequences of water imbalance in the human body.
18. Explain the functions of Vitamin A.
19. Explain the functions of thiamine.
20. Bring out the role of calcium.
21. Plan a day's diet for a preschool child. Justify.

(5 x 5 = 25 marks)

PART D

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

22. Describe the components of energy expenditure. Discuss the factors affecting it.
23. Explain the methods of evaluating protein quality.
24. Write a note on the antioxidant role of vitamins in the human body.
25. Explain the physiological changes in old age and related nutritional requirements.

(2 x 10= 20 marks)