

TB245231R

Reg. No : .....

Name : .....

**BACHELOR'S DEGREE (C.B.C.S.) EXAMINATION, FEBRUARY 2024**  
**2021 ADMISSIONS SUPPLEMENTARY (SAY)**  
**SEMESTER V - CORE COURSE (HOME SCIENCE )**  
**HS5B06B18 - Human Nutrition**

**Time : 3 Hours**

**Maximum Marks : 60**

**Part A**

**I. Answer any Ten questions. Each question carries 1 mark**

**(10x1=10)**

1. Define Food Security.
2. Name the four parameters of the Global Food Security Index.
3. Define Biological Value (BV) of proteins.
4. Define Glycemic Index.
5. Write a note on Non Starch Polysaccharides(NSPs).
6. What are Bitot spots?
7. Identify the vitamin referred to as fresh food vitamin and state reason.
8. Differentiate between Hemoglobin and Myoglobin.
9. Comment on the iron requirement in school going children of 10-12 years.
10. Comment on the importance of inculcating good food habits during preschool age.
11. Enumerate two physiological changes in pregnancy.
12. Comment on galactagogues?



**Part B**

**II. Answer any Six questions. Each question carries 5 marks**

**(6x5=30)**

13. Describe the determination of energy content of foods using a bomb calorimeter.
14. Write a note on transamination, deamination and decarboxylation of Amino Acids.
15. Explain the Tri Carboxylic Acid(TCA) cycle with the aid of a neat figure.
16. What are the ocular manifestations of Vitamin A deficiency?
17. What are the symptoms of rickets?
18. What is the need for and importance of menu planning?
19. Give an account of the changes in body composition of an infant.
20. What are the dietary problems that are associated with pregnancy.
21. Discuss dietary modifications for the geriatric population.

**Part C**

**III. Answer any Two questions. Each question carries 10 marks**

**(2x10=20)**

22. Elaborate the Beta oxidation of fatty acids.
23. Elaborate on the following a. role of thiamine and b. deficiency of riboflavin .
24. What are the advantages of breast feeding?
25. Bring out the importance of optimal nutrition in old age. Plan a day's menu for a 70 year old man.