



WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 6th Semester Examination, 2021

PHYADSE04T-PHYSIOLOGY (DSE3/4)

HUMAN NUTRITION AND DIETETICS

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.
All symbols are of usual significance.*

Answer any *five* questions from the following

8×5 = 40

1. (a) Describe the physiology of starvation. 4
(b) Write a short note on Nitrogen balance and SDA. 4
2. (a) What is PEM? Discuss the methods of assessment of PEM and its preventive measures. 4
(b) What are the symptoms of Kwashiorkor and Marasmus? 4
3. Write short notes on any *four* of the following: 2×4 = 8
 - (a) NPU
 - (b) Nutritional anaemia
 - (c) RQ
 - (d) Obesity
 - (e) Biological value of protein.
4. (a) Define BMR and explain its determination by Benedict Roth Apparatus. 1+3
(b) State the factors affecting BMR. 4
5. (a) Write about endemic goitre and xerophthalmia. 2
(b) What measures can be taken to prevent them? 2
(c) Write about AIDS. 4
6. (a) Discuss about dietary fibres. 3
(b) Name one of the most important essential fatty acid in the diet. 1
(c) Write about the principle of diet survey. 4

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| 7. (a) What is balanced diet? | 1 |
| (b) Discuss the principles for the formation of balanced diet. | 3 |
| (c) Compare the balanced diet of a woman and a lactating woman of same age. | 4 |
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| 8. (a) Give an account of the recommended dietary allowance (RDA) for macro-nutrients. | 4 |
| (b) What is Cachexia? | 1 |
| (c) Write about the role of Leptin in obesity. | 1 |
| (d) What are the two types of adipose tissue in our body? | 2 |

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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