

WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 6th Semester Examination, 2022

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.

Answer any five questions from the following $8 \times 5 = 40$ 1. (a) What is the difference between water-soluble and water-insoluble dietary fibers? 2+6(b) Briefly discuss the factors controlling BMR. 2. (a) Write a note on starvation. 3+5(b) Prepare a low cost balanced diet chart for a pregnant woman. 3. (a) Write the significance of sodium in maintenance of fluid balance. 3+3+2(b) State the role of calcium in enzyme action and blood coagulation. (c) What is non-heme iron storage form of iron? 4. (a) Define ACU. 2+(2+1)+3(b) Define protein efficiency ratio (PER). Give examples of both animal and vegetable

- - proteins.
 - (c) How can you measure PER?
- 5. (a) What do you mean by calorie value of food? 3+2+3
 - (b) Why does food give less energy in the living body than its actual calorie value?
 - (c) Write the relationship between energy expenditure in different categories of physical activities.
- 6. (a) What are protein sparers? 2+2+4
 - (b) Differentiate between visible and invisible fats.
 - (c) Describe the changes in metabolism during starvation.

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7. (a) State the factors that affect the biological value of proteins.

3+5

- (b) Discuss the role of vitamin K in blood coagulation.
- 8. (a) Write the source and daily requirements of vitamin C.

(2+2)+4

(b) Describe the role of vitamin C in hydroxylation process.

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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