



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 1st Semester Examination, 2022-23



FNTACOR02T-FOOD AND NUTRITION (CC2)

PHYSIOLOGY IN NUTRITION

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.*

Answer any four questions from the following

10×4 = 40

1. Write short notes on hazards of mismatch of blood transfusion and structure of haemoglobin. 5+5
2. Differentiate between tight junction and gap junction. Write a short note on desmosome. 5+5
3. Briefly state about the events of cardiac cycle. Write a short note on coronary circulation. 5+5
4. Explain the role of kidney in maintaining water and electrolyte balance. Write a short note on JG apparatus. 5+5
5. Answer the following questions: 2×5 = 10
 - (a) What is cardiac output?
 - (b) What is FEV₁?
 - (c) What is GFR?
 - (d) What do you mean by systemic circulation?
 - (e) What is Rh factor?
6. What do you mean by primary and secondary active transport and facilitated diffusion in respect of membrane transport? 5+5
7. Describe briefly the components of conductive system present in heart. Write a note on the different heart sounds.
8. (a) What is hematocrit? What is its normal value? 3
(b) Enumerate the functions of blood. 4
(c) What is erythroblastosis fetalis? Explain briefly. 3
9. (a) How is oxygen transported in blood? 4
(b) What is chloride shift? Explain. 2
(c) Define hypoxia. 2
(d) What is acclimatization? 2

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