

B.Sc. 1st Semester (Honours) Examination-2022-23

NUTRITION

Course ID : 12312 Course Code : SH/NUT/102/C-2

Course Title : Human Physiology I (New)

Time : 1 Hour 15 Minutes

Full Marks : 25

The figures in the right hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Unit-I

1. Answer any five questions : 1×5=5

- (a) Difference between superficial nephron and juxtamedullary nephron?
- (b) Name the hormones secreted by JG apparatus?
- (c) What are the delayed changes occur due to acclimatization?

- (d) State the function of papilla of Vater?
- (e) What is peripheral resistance?
- (f) What is micelle?
- (g) Name one gastrointestinal hormone.
- (h) Define thrombocytopenia.

Unit-II

2. Answer any *two* questions : 5×2=10

- (a) "Liver is called as the biochemical laboratory of our body"—Explain the statement? 5
- (b) Write the importance of MN system in blood grouping? What kind of complications can occur due to blood transfusion? $2\frac{1}{2}+2$
- (c) Discuss the role of kidney in maintaining the acid base balance in the body? 5

- (d) Which cell organelle is called the powerhouse of the cell and why? Classify the types of lysosome? 3+2

Unit-III

3. Answer any *one* question : 10×1=10

- (a) Describe the structure and function of the conducting system of the heart? Write a short note on heart sound? Describe the nervous regulation of arterial blood pressure? 5+2+3
- (b) State the role of muscles in mechanism of respiration? Write the significance of oxygen haemoglobin dissociation curve? Explain Halden effect? 4+3+3