

**UNDERGRADUATE FIRST SEMESTER EXAMINATIONS, 2020**

**Subject: Nutrition (Honours)**

**Course ID: 12311**

**Course Title: Human Physiology I**

**Full Marks: 25**

**Time: 1hr. 15mins.**

**The figures in the margin indicate full marks**

**Answer all the questions.**

**UNIT I**

**1. Answer *any five* of the following questions: (1x5=5)**

- a) Define GFR.
- b) What is tidal volume?
- c) Name one precursor of proteolytic enzyme.
- d) Write down the major function of ribosomes.
- e) What are cristae?
- f) What is the structural and functional unit of kidney?
- g) What is acclimatization?
- h) Define peripheral resistance?

**UNIT II**

**2. Answer *any two* of the following questions: (5x2=10)**

- a) Describe the extrinsic pathway of blood coagulation. 5
- b) How is oxygen transported in human body? 5
- c) Discuss the functions of kidney. 5
- d) Write a short note on carbohydrate digestion in our body. 5

### UNIT III

3. Answer *any one* of the following questions:

(10x1=10)

- a) What is stroke volume? What are the different factors that can increase or decrease cardiac output? Discuss the regulation and control of cardiac output. 1+2+2+5=10
- b) Discuss the structure and functions of the following eukaryotic cell organelles with proper diagram: (i) Nucleus; (ii). ER 5+5=10

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