

**B.Sc. Semester I (Honours) Examination, 2018-19**

**NUTRITION**

**Course Id : 12311**

**Course Code : SHNUT-101C-1(T)**

**Course Title : Human Physiology I**

**Time: 1 Hour 15 Minutes**

**Full Marks: 25**

*The figures in the margin indicate full marks.*

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

1. Answer *any five* out of the following: 1×5=5
- (a) Define tidal volume.
  - (b) What is ketonuria?
  - (c) What do you mean by acclimatisation?
  - (d) Name the muscles for respiration.
  - (e) What is stroke volume?
  - (f) What is circle of Willis?
  - (g) What are micelle?
  - (h) Define blood pressure.
2. Answer *any two* out of the following: 5×2=10
- (a) Describe the ventricular events in cardiac cycle. 5
  - (b) Briefly discuss the ABO system of blood grouping. 5
  - (c) What do you mean by cellular transport? Explain the different types of cellular transport citing examples. 2+3=5
  - (d) Write about the structure and function of nucleus and ER.  $2\frac{1}{2} + 2\frac{1}{2}=5$
3. Answer *any one* out of the following: 10×1=10
- (a) What is nephron? What are the different parts of a nephron? Describe the role of kidney in acid-base balance. 1+3+6=10
  - (b) How is blood pressure regulated in our body? Write down the role of bile in digestion and absorption of fat. 6+4=10
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