

SH-I/NUT/101/C-1/19

B.Sc. 1st Semester (Honours) Examination, 2019-20

NUTRITION

Course ID : 12311

Course Code : SH/NUT/101/C-1

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* of the following questions: 1×5=5
- (a) State the role of ptyalin in digestion.
 - (b) Mention the cause of first heart sound during cardiac cycle.
 - (c) Name one hormone secreted by the juxtaglomerular apparatus.
 - (d) Define vital capacity.
 - (e) What is GFR?
 - (f) Write down the functions of rough ER.
 - (g) What is enterohepatic circulation?
 - (h) Mention the functions of the distal convoluted tubules of the nephrons.
2. Answer *any two* of the following questions: 5×2=10
- (a) Discuss how protein is digested in our body. 5
 - (b) Explain the process of reverse chloride shift with a proper diagram. 5
 - (c) Describe the intrinsic pathway of blood coagulation. 5
 - (d) Discuss the role of kidney in maintaining acid base balance in our body. 5
3. Answer *any one* of the following questions: 10×1=10
- (a) Describe the regulation of cardiac output. What is the significance of Rh-group of blood? What are anticoagulants? Give example. 6+2+(1+1)=10
 - (b) Discuss the process of fat absorption in our body. Differentiate between liver bile and gall bladder bile. 6+4=10
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