

B.Sc. 4th Semester (Honours) Examination, 2022

PHYSIOLOGY

Course ID: 42512

Course Code: SH/PHY/402/C-9(T)

Course Title: Gastrointestinal Function

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 questions from the following: 1×5=5

- (a) What do you mean by nucleoside?
- (b) Mention any one role of motilin.
- (c) What are bile pigments?
- (d) What is ORS?
- (e) State the importance of villi.
- (f) Write the name of any two enzymes present in succus entericus.
- (g) What do you mean by deglutition apnoea?
- (h) Why salivary amylase cannot act on unboiled starch?

2. Answer any two questions from the following: 5×2=10

- (a) How milk protein is digested in our GI tract? 5
- (b) Discuss the process of absorption of calcium in our body. 5
- (c) Briefly discuss the mechanism of carbohydrate digestion in human body. 5
- (d) State the composition and function of salivary juice. 3+2

3. Answer any one question from the following: 10×1=10

- (a) Explain in brief the modern concept of fat absorption in our body. Describe how amino acids are absorbed from alimentary canal. 6+4
- (b) Differentiate between GIP and VIP. Discuss the regulation and functions of gastrin in man. 2+(3+5)