



'সমানো মন্ত্র: সমিতি: সমানী'

**UNIVERSITY OF NORTH BENGAL**

B.Sc. Honours 4th Semester Examination, 2022

**CC9-PHYSIOLOGY**

**GASTROINTESTINAL FUNCTION**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.*

**GROUP-A**

1. Answer any **five** questions from the following: 1×5 = 5
- (a) What are the different layers of gastrointestinal (GI) tract?
  - (b) How salivary secretion is regulated?
  - (c) What is renin?
  - (d) Name the major salivary glands in human.
  - (e) How is trypsinogen converted into trypsin?
  - (f) Write sympathetic nerve supply of GIT.
  - (g) Name the hormones which increase the secretion of pancreatic juice.
  - (h) What is succus entericus?

**GROUP-B**

**Answer any three questions from the following**

5×3 = 15

- 2. (a) What are the constituents of gastric juice? 3
- (b) What is gastrin? 2
- 3. (a) How is vomiting initiated? 2
- (b) Describe the sequence of events occurring during vomiting? 3
- 4. (a) What are the properties of pancreatic juice? 2
- (b) Name the enzymes present in pancreatic juice. 3
- 5. (a) Name the factors regulating the secretion of hydrochloric acid in stomach. 2
- (b) Briefly explain the secretion of HCl in stomach. 3
- 6. (a) What are the causes of constipation? 2
- (b) What are the functions of large intestine? 3

**GROUP-C**

**Answer any *two* questions from the following**

10×2 = 20

7. Write short notes on: 5+5
- (i) Gallstone
  - (ii) Cirrhosis of liver.
8. Enumerate the functions of saliva. 10
9. (a) Mention the different movements of small intestine. 2
- (b) Describe the segmentation movements of small intestine. 8
10. Describe the digestion of carbohydrates. 10

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