

# THE UNIVERSITY OF BURDWAN

B.Sc. Semester-IV Examination, 2022  
(CBCS) Subject: PHYSIOLOGY  
Paper: CC9 (Gastrointestinal Function)

Candidates are required to give their answers in their own words as far as practicable and submit the photograph or scanned copy of their answer script within 30 min after the completion of the examination through the email. The figures in the right-hand margin indicate full marks for each question.

**Answer all questions as instructed.**

Time: 2 Hours

Full Mark: 40

1. Answer any **five** questions (5x2=10)
    - a. What is Hirschsprung disease ?
    - b. Write the location and primary function of Brunner's Gland.
    - c. Write the role of Bile Salt in digestion. 0
    - d. What is GALT?
    - e. Write the source and primary function of Gastrin.
    - f. What is mass peristalsis?
    - g. What is Cholelithiasis?
    - h. What is Chylomicron?
  2. Answer any **two** questions ( 2x5 = 10)
    - a. Write the mechanism of deglutition. (5)
    - b. Write the histoarchitecture of endocrine pancreas with neat diagram. (5)
    - c. Explain the anatomy and importance of enterohepatic circulation. (5)
    - d. What is enteric brain? Explain the neural circuitry in the GI tract. (5)
  3. Answer any **two** questions ( 2x10 = 20)
    - a. Briefly explain the mechanism of secretion and regulation of bile. (10)
    - b. Write the role of ptyalin in carbohydrate digestion and explain the mechanism of glucose absorption. (10)
    - c. Discuss the neuro – chemical regulation of salivary secretion. (10)
    - d. Explain the biochemical process of bile salt synthesis. (10)
-