

U.G. 4th Semester Examination - 2022

PHYSIOLOGY

[HONOURS]

Course Code : PHYSIOL-H-CC-T-9

Full Marks : 40

Time : $2\frac{1}{2}$ Hour

The figures in the right-hand margin indicate marks.

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

GROUP-A

1. Answer any **five** questions: $2 \times 5 = 10$
- a) What is vago-vagal reflex?
 - b) State the functions of goblet cells.
 - c) What do you mean by MMC?
 - d) Write two main causes of gastric ulcer.
 - e) What is sphincter of Oddi? What is its function?
 - f) How does gall bladder bile differ from liver bile?
 - g) What are cholagogues? Give an example.

GROUP-B

2. Answer any **two** questions: $5 \times 2 = 10$
- a) Describe the different phases of pancreatic secretion. 5
 - b) Discuss about the absorption of amino acids from the human intestine. 5

- c) i) Describe briefly about the different types of movement found in small intestine.
- ii) What is gastritis? 3+2
- d) Write a short note on the importance of enterohepatic circulation. 5

GROUP-C

3. Answer any **two** questions : $10 \times 2 = 20$
- a) i) Write the composition of salivary juice.
 - ii) Discuss the process of absorption of carbohydrates in the gut. 4+6
 - b) i) State the site of secretion and function of gastrin.
 - ii) Briefly discuss the role of bile in the digestion of fat in alimentary canal.
 - iii) What is Pavlov's pouch? $(2+2)+4+2$
 - c) i) Describe the role of the following enzymes in digestion:
 - a) α -amylase
 - b) Phospholipase A2
 - c) Invertase
 - ii) Write a note on the Laws of Intestine. 6+4=10
 - d) i) Describe the cellular mechanism of gastric acid secretion.
 - ii) Mention the factors controlling gastric acid secretion. 7+3=10