

U.G. 4th Semester Examination - 2024.**PHYSIOLOGY****[HONOURS]****Course Code : PHYSIOL-H-CC-T-9****Full Marks : 40****Time : $2\frac{1}{2}$ Hours***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: 2×5=10
- a) What is MMC?
 - b) Name the enzymes present in pancreatic juice.
 - c) State the difference between liver and gall bladder bile.
 - d) Write the source and function of somatostatin.
 - e) What is pancreatitis?
 - f) What do you mean by alkaline tide?
 - g) What is the function of enterochromaffin cells?
 - h) Name the salivary glands and mention their location.

GROUP-B

2. Answer any two from the following questions: 5×2=10
- a) Describe how water is absorbed in the GI tract.

5

[Turn Over]

- b) Discuss briefly about the formation of bile salts in liver. 5
- c) Describe the importance of enterohepatic circulation. 5
- d) What is micelle? How they play role in fat digestion? 1+4=5

GROUP-C

3. Answer any two from the following questions:

10×2=20

- a) i) Write a short note on Sham Feeding.
- ii) Describe the deglutition reflex. 5+5=10
- b) i) State the site of secretion and functions of gastrin.
- ii) What do you mean by hunger contractions?
- iii) What do you mean by Law of Intestine? 4+3+3=10
- c) i) Briefly describe the role of dietary fibres on food transit in intestine.
- ii) Describe the mechanism of vitamin B₁₂ absorption in intestine. 5+5=10
- d) i) Describe the mechanism of gastric acid secretion.
- ii) Mention the factors controlling gastric acid secretion. 7+3=10