

**U.G. 4th Semester Examination - 2020**

**PHYSIOLOGY**

**[HONOURS]**

**Course Code : PHYSIOL(H)-CC-T-9**

Full Marks : 40

Time : 2½ 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** from the following questions:

2×5=10

- a) Explain, why pancreas is called a mixed gland.
- b) Name the plexus present in the enteric nervous system.
- c) How bile pigments are formed?
- d) State the causes of hepatic jaundice.
- e) What is sphincter of Oddi? State its function.
- f) Name the salivary glands present in mouth.
- g) What do you mean by gastroileal reflex?
- h) What are chyme and chyle?

**GROUP-B**

2. Answer any **two** from the following questions:

5×2=10

- a) Briefly describe the mechanism of HCl secretion. 5
- b) Write the location and function of the following: 1×5=5
  - i) Kuffer cells,
  - ii) G-cells,
  - iii) C-cells,
  - iv) Goblet cells,
  - v) Peyer's patch
- c) Describe briefly about the peristaltic movement. 5
- d) What is GALT? Write their functions.

2+3=5

**GROUP-C**

3. Answer any **two** from the following questions:

10×2=20

- a)
  - i) Differentiate between liver bile and gall bladder bile.
  - ii) Describe the functions of salivary juice.
  - iii) What is enterohepatic circulation?

4+4+2=10

- b) i) What is peptic ulcer?  
ii) Describe the process of carbohydrate digestion in alimentary canal.  
iii) What is Pavlov's pouch?

$$3+5+2=10$$

- c) i) Describe the role of different hormones in the regulation of pancreatic juice secretion.  
ii) Briefly discuss the role of bile in absorption of fat in alimentary canal.  
iii) Write a short note on pancreatitis.

$$4+3+3=10$$

- d) i) Describe the site and mechanism of calcium absorption in GI tract.  
ii) Explain how calcium absorption is regulated in GI tract.  
iii) What is ampulla of Vater?

$$4+5+1=10$$

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