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B.Sc. RNLK-/C7T/21

2021

Physiology (H)

[Third Semester]

Paper - C7T

Full Marks : 40

Time : 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.

Illustrate the answers wherever necessary.

A. Answer any five of the following questions : 5×2=10

1. Name the digestive enzymes present in Saliva & gastric juice. 1+1
2. Mention the composition of bile. 2
3. Mention the significance of renal clearance tests. 2

(Turn Over)

(2)

4. What is macula densa? 2
5. What do you mean by hypertonic urine? 2
6. What are abnormal constituents of urine? 2
7. State the difference between chyme and chyle. 2
8. What is the location of swallowing centre? State the phases of deglutition? 1+1

B. Answer any four from the following questions : 4×5=20

1. Write a short note on RFT.
2. Give a brief overview of different substances which are reabsorbed and secreted in various parts of nephron.

(2+2)

3. Draw the histological structure of small intestine (duodenum/ jejunum/ ileum) indicating their characteristics.

(4+1)

4. What is mass-movement? Write down the ion secretion mechanisms of pancreatic acinar and intercalated duct cells.

(2+3)

(3)

5. Describe the renin-angiotensin system. 5
6. State the peculiarities of the enterohepatic circulation. 5

C. Answer any one question from the following : 1×10=10

1. (i) Mention the peculiarities of renal circulation. 4
(ii) What is renal dialysis? 3
(iii) What is autoregulation? Write down its importance. 3
2. (i) What are the main epithelial cells of mucosa present in the wall of the tubular gut? 3
(ii) What are the differences between serosa and adventitia? What are the different types of mucosa present inside the oral cavity? (2+2)
(iii) What are the causes and symptoms of jaundice? What are the different movements of the alimentary canal?

(2+1)