WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 4th Semester Examination, 2022

PHYACOR09T-PHYSIOLOGY (CC9)

Time Allotted: 2 Hours | Full Marks: 40

The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.

Answer any *five* questions from the following 8×5 = 40

1. (a) What is the effect of stimulation of parasympathetic nerve fibres to salivary glands? 2+4+2
   (b) Describe the different stages of deglutition.
   (c) What is Pavlov's Pouch?

2. (a) What do you mean by I-FABP? 1+4+3
   (b) Describe the different factors controlling HCl secretion in the stomach.
   (c) State the composition of succus entericus.

3. (a) State the process of synthesis of bile salt. 3+3+2
   (b) Enumerate the differences between liver and gall bladder bile.
   (c) What is enterohepatic circulation?

4. Write short notes on (any ***two***): 4×2 = 8
   (a) Peptic ulcer
   (b) Cholelithiasis
   (c) Dysphagia
   (d) GERD

5. (a) Describe briefly the role of different GI hormones. 6+2
   (b) What is peristaltic rush?

6. (a) What is emulsification of fat? 2+5+1
   (b) Discuss the process of lipid absorption in small intestine.
   (c) What is steatorrhea?

7. (a) What do mean by microbial digestion in the human digestive system? 2+4+2
   (b) Discuss the molecular mechanism of glucose absorption in small intestine.
   (c) Why cellulose cannot be digested in humans?

8. (a) Explain the regulation of secretion of pancreatic juice. 4+2+2
   (b) State the role of centro-acinar cells in pancreas.
   (c) What is paralytic secretion?

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within* 1 *hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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