

**B.Sc. 4th Semester (Honours) Examination, 2019 (CBCS)**

**Subject : Physiology**

**Paper : CC-9**

**Time: 2 Hours**

**Full Marks: 40**

*The figures in the margin indicate full marks.*

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

1. Answer *any five* questions: 2×5=10
  - (a) Mention the location and function of 'Sphincter of Oddi'.
  - (b) What is 'Peyer's patch'? Mention its function.
  - (c) What do you mean by Xerostomia?
  - (d) What is MALT? Mention its function.
  - (e) Why isolated intestine shows rhythmic contraction in 'Dale's bath'?
  - (f) Name any two protein digesting enzymes present in pancreatic juice.
  - (g) Write the chemical nature of 'Gall stones'.
  - (h) What is Cholelithiasis?
  
2. Answer *any two* questions: 5×2=10
  - (a) Briefly describe the histological structure of pancreas with diagram. 3+2=5
  - (b) Discuss different phases of deglutition mentioning its reflex control. 4+1=5
  - (c) What is jaundice? Classify jaundice with signs and symptoms. 2+3=5
  - (d) What is peptic ulcer? How it develops? How it can be prevented? 1+2+2=5
  
3. Answer *any two* questions: 10×2=20
  - (a) Briefly describe role of secretin in the mechanism of secretion of  $\text{HCO}_3^-$ . How do the duct cells differ from acinar cells functionally? 6+4=10
  - (b) Discuss the mechanism of formation and secretion of HCl in gastric juice. Mention nervous regulation of gastric secretion. 6+4=10
  - (c) Name the enzymes present in gastric juice, pancreatic juice for lipid digestion. Briefly describe the mechanism of fat absorption in intestine. How lipids are transported in blood? 2+6+2=10
  - (d) What are the major and minor salivary glands? Briefly describe the histology of salivary gland. Mention the nervous connection and regulation of salivary secretion. 2+4+4=10