

School: School of Science

Program/s: MSc LS Year:1st

Semester: 1st

Examination: End Semester Examination

Examination

Dec 2022

Course Code: LS106

Course Name: Physiology and Endocrinology

year:

Date: 6/12/2022

Total Marks: 40

Time: 8:30 Am to 10:30 Am

Total

Pages:2

Instructions:

→ All questions are compulsory

→ Draw neat labelled diagram wherever required

→ * COs=Course Outcome mapping. # BTL=Bloom's Taxonomy Level mapping

Q. No.	Details	Marks	COs*	BTL#
Q.1	Do as Directed 1) The term "brain of gut" is used to refer to the: a. Autonomic ganglia b. Enteric nervous system c. Migratory motor complex d. Interstitial cells of cajal 2) The optimum pH for the activity of pepsin is a. Less than 1 b. Between 1.6 and 3.2 c. Between 3 and 5 d. Between 6 and 7 3) A posterior pituitary hormone released during parturition is a. Oxytocin b.Vasopressin c. ICSH d.ACTH 4) When food is mechanically broken down and mixed with gastric secretions, the	8	CO1, CO2, CO3, CO4	BT1, BT2, BT3
	resultant thick, liquid mixture is known as 5) Define glycosuria and polyuria. 6) Which of the following is NOT a secretory cell in the alimentary canal? a. Mucous cells b. Parietal cells c. Kupffer cells d. Chief cells 7) Label A and B in the given diagram:			

Answer the following questions in brief (2*6= 12 M) 1) Explain why removal of either the stomach or the terminal ileum leads to pernicious anemia 2) In RAS pathway, What organs produce which hormones or enzymes in BP regulation? 3) What are neurotransmitter? 4) Name any two Steroid hormones and state their role. 5) State the different layer inner to outermost found in the GI tract. 6) Give 4 functions carried out by liver.	12	CO1, CO2, CO3, CO4	BT1, BT2, BT3
Answer the following questions in detail (4*5= 20 M) (any 4) 1) Explain how the secretion of a hormone is controlled by negative feedback	20		
			BT3,
· 3) Mention any two hormone derived from amines and explain their function.		CO2	BT4
	1		
4) Draw a neat labelled diagram of pituitary gland and state the secretions made by			
	 Answer the following questions in brief (2*6= 12 M) Explain why removal of either the stomach or the terminal ileum leads to pernicious anemia In RAS pathway, What organs produce which hormones or enzymes in BP regulation? What are neurotransmitter? Name any two Steroid hormones and state their role. State the different layer inner to outermost found in the GI tract. Give 4 functions carried out by liver. Answer the following questions in detail (4*5= 20 M) (any 4) Explain how the secretion of a hormone is controlled by negative feedback inhibition. Use the control of insulin secretion as an example. Write a note on the secretion and regulation of HCl in stomach. 	Answer the following questions in brief (2*6= 12 M) 1) Explain why removal of either the stomach or the terminal ileum leads to pernicious anemia 2) In RAS pathway, What organs produce which hormones or enzymes in BP regulation? 3) What are neurotransmitter? 4) Name any two Steroid hormones and state their role. 5) State the different layer inner to outermost found in the GI tract. 6) Give 4 functions carried out by liver. Answer the following questions in detail (4*5= 20 M) (any 4) 20 1) Explain how the secretion of a hormone is controlled by negative feedback inhibition. Use the control of insulin secretion as an example. 2) Write a note on the secretion and regulation of HCI in stomach.	Answer the following questions in brief (2*6= 12 M) 1) Explain why removal of either the stomach or the terminal ileum leads to pernicious anemia 2) In RAS pathway, What organs produce which hormones or enzymes in BP regulation? 3) What are neurotransmitter? 4) Name any two Steroid hormones and state their role. 5) State the different layer inner to outermost found in the GI tract. 6) Give 4 functions carried out by liver. Answer the following questions in detail (4*5= 20 M) (any 4) 20 1) Explain how the secretion of a hormone is controlled by negative feedback inhibition. Use the control of insulin secretion as an example. 2) Write a note on the secretion and regulation of HCI in stomach.

************End of Question Paper******