

Enrollment No. _____



NAVRACHANA UNIVERSITY
A USC Recognized University

School: School of Science
 Program/s: BSc - MSc Biomedical Science
 Year: 1st Semester: 1st
 Examination: End Semester Examination
 Examination year: Dec 2022

Course BM121 121
 Code:
 Date: 12/12/2022

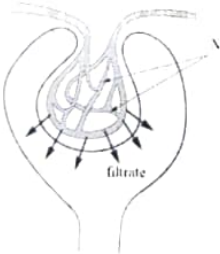

Course Anatomy and Physiology -I
 Name:

Time: 8:30 am to 10:30 Pm

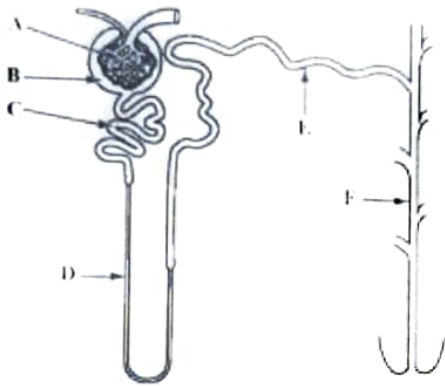
Total 40
 Marks:
 Total
 Pages:3

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	<p>Do as Directed</p> <p>1) Name the network of capillaries labelled as X</p>  <p>2) Identify and state its function:</p>  <p>3) The principal bile pigment is _____.</p> <p>4) GERD stands for _____.</p>	8	CO1, CO2, CO3, CO4	BT1, BT2, BT3

	<p>5) Write the equation for the chemical reaction that occurs for the transport of carbon dioxide as bicarbonate ions in blood.</p> <p>6) Which of the following would cause oxygen to dissociate more readily from hemoglobin?</p> <p>(1) low PO₂ , (2) an increase in H⁺ in blood, (3) hypercapnia, (4) hypothermia, (5) low levels of BPG (2,3-bisphosphoglycerate).</p> <p>(a) 1 and 2 (b) 2, 3, and 4 (c) 1, 2, 3, and 5 (d) 1, 3, and 5 (e) 1, 2, and 3</p> <p>7) In the nephron, glucose reabsorption occurs mainly in the</p> <p>a. Proximal tubule b. Loop of henle c. Distal convoluted tubule d. Collecting duct.</p> <p>8) Name 2 hormones associated with GFR regulation.</p>			
Q.2	<p>Answer the following questions in brief (2*6= 12 M)</p> <p>1) State the enzymes present in the pancreatic juice and their function. 2) What is the role of surfactant? 3) Make a list of cells found in the mucosa lining of the stomach and state their function. 4) List out 4 points related to kidney's function. 5) Explain structure of human blood respiratory pigment. 6) State location and function of juxtaglomerular cells.</p>	12	C01, C02, C03, C04	BT1, BT2, BT3
Q.3	<p>Answer the following questions in detail (3*5= 15M) (any 3)</p> <p>1) What is breathing? Explain the event that causes inhalation and exhalation? 2) Describe the three basic renal processes; indicate how they relate to urine excretion. 3) Explain why removal of either the stomach or the terminal ileum leads to pernicious anemia. Explain the pathophysiology associated with the condition. 4) What is Bohr effect?</p>	15	C02	BT3, BT4
Q.4	<p>Do as directed (5 M)</p> <p>1) Name the functional unit of mammalian kidney and label the parts A-F</p>	5	C03, C04	BT2, BT3, BT4



2) Draw a neat labelled diagram of internal anatomy of stomach.

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