

Name:

Enrolment No:



UPES

End Semester Examination, December 2023

Course: Human Physiology

Semester : Ist Sem

Program: MSc Microbiology

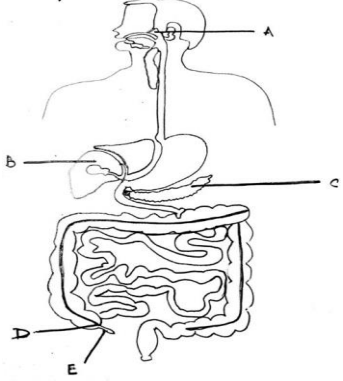
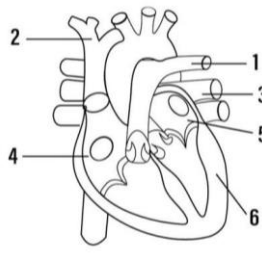
Duration : 3 Hours

Course Code: HSND 7013

Max. Marks: 100

Instructions: Attempt all the sections

S. No.	Section A Short answer questions/ MCQ/T&F (20Qx1.5M= 30 Marks)	Marks	COs
1	Define the term "Homeostasis"	1.5	CO1
2	Classify meninges present in human body system.	1.5	CO2
3	Write two examples of secondary messengers involved in intracellular signaling.	1.5	CO3
4	Mention two primary functions of integumentary system.	1.5	CO1
5	How does lymph differ from blood and its function in the body?	1.5	CO1
6	What is the normal value of lymphocytes in adult male and female?	1.5	CO2
7	Define "Blood Pressure".	1.5	CO3
8	What is the primary function of the small intestine in the digestive system?	1.5	CO1
9	What is Creatine Phosphate? Define its role in human body system.	1.5	CO1
10	Define "Cardiac Cycle"	1.5	CO2
11	Write one example of each (a) Movable Joint and (b) Immovable joint	1.5	CO3
12	Define systole and diastole in the context of the cardiac cycle.	1.5	CO1
13	What is the composition of cerebrospinal fluid?	1.5	CO1
14	Mention the pH of the following: 1. Blood 2. Stomach 3. Small Intestine	1.5	CO2
15	In the diagram below mention A, B and C	1.5	CO3

			
16	Mention functions of ATP.	1.5	CO1
17 connects two hemispheres of the brain.	1.5	CO1
18	Basophils, Eosinophils and Neutrophils are referred to as..... (a) Platelets (b) Astrocytoma's (c) Granulocytes (d) Buffers	1.5	CO2
19	Define "RAS".	1.5	CO3
20	What is the function of acetylcholine?	1.5	CO1
Section B (4Qx5M=20 Marks)			
1	Discuss the different stages of Blood Coagulation in human body system.	5	CO1
2	Classify connective tissue. Explain the function of fluid connective tissue with example.	5	CO2
3	Explain the role of kidney in regulating acid base balance.	5	CO3
4	Explain with the help of diagram anatomy of Integumentary System.	5	CO2
Section C (2Qx15M=30 Marks)			
1	<p>a) Label the diagram below.</p>  <p>b) Explain the anatomy of the cardiovascular system. c) Discuss the factors that helps in regulating the Blood Pressure</p>	15 6 5 4	CO5
2	<p>a) What is CSF? Describe its functions and origin. b) Explain the Structure and Functions of the Cerebrum. c) Discuss Action Potential, the Process of Nerve Impulse Transmission.</p>	15 2+3 5 5	CO4
Section D (2Qx10M=20 Marks)			

1	Name the enzymes involved in protein digestion. Discuss the process of carbohydrate digestion in human body system.	2+8	CO4
2	Discuss the type of blood group system in humans. Explain the role of Rh factor in causing “Erythroblastosis Foetalis”.	10	CO5