Name: **Enrolment No:**	UPES UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2022

Course: Human Anatomy and Physiology **Semester: 1**
Program: B.Sc and integrated BMSc FND, CR and Micro
Time 03 hrs.
Course Code: HSCC1007 **Max. Marks: 100**

SECTION A

Each Question will carry 1.5 Marks

S. No.	**Question**	**CO**
Q 1	What is parotiditis?	**CO4**
Q 2	Define "stagnant hypoxia"?	**CO5**
Q 3	What is deglutition?	**CO2**
Q 4	Renin is secreted by _____	**CO1**
Q 5	What do you mean by residual volume ?	**CO3**
Q 6	What are chylomicrons ?	**CO5**
Q 7	Hyper secretion of glucagon is known as _____	**CO5**
Q 8	Name the hormones secreted from ovaries	**CO3**
Q 9	What is Glomerular filtration rate	**CO1**
Q 10	What are chromosomes	**CO3**
Q11	Which cells are known as phagocytic cells or macrophages of CNS ?	**CO3**
Q 12	Which gland in body is known as " life- saving gland " ?	**CO2**
Q 13	Write down the functions of testes	**CO3**
Q 14	Which part of brain has the control center for blood pressure and heart rate?	**CO4**
Q 15	Triglycerides are made up of ----------	**CO2**
Q 16	Increased plasma calcium level is known as _____	**CO5**
Q 17	The ability of nerve fibers to transmit the impulse from the area of stimulation is known as A) Summation	**CO1**

	B) Adaption C) Conductivity D) Specific law	
Q18	Give any two examples of inhibitory neurotransmitters	**CO4**
Q 19	Write down the functions of salivary glands	**CO5**
Q 20	Name three hormones secreted by thyroid gland ?	**CO1**
SECTION B **1. Each question will carry 5 marks (not more than 150 words)** **2. Instruction: Write short / brief notes**		
Q 1	Give a brief explanation of breathing mechanism.	**CO2**
Q 2	What are receptors? Write down the properties of Receptors	**CO3**
Q 3	Write the functions of Juxtaglomerular appratus	**CO1**
Q 4	What are neurotransmitters, how they are released	**CO1**
Section C **1. Each Question carries 15 Marks.** **2. Instruction: Write long answer.**		
Q 1	Analyze the following passage and answer the following questions Case study: A patient of age 24 years is suffering from pain in epigastric region with anorexia since 5days. On clinical examination it was found that the patient is having inflammation in abdomen. In laboratory investigation it was found WBC – 12.5 /cu mm S.BILIRUBIN – 0.82 Mg/dl SGOT – 18.04µ /L SGPT – 26.02µ /L Questions a. Diagnosis the case (2 Marks) b. Describe the etiology and other clinical features of this disease (5 marks) c. What is gastritis (3 marks) d. How will you differentiate duodenal and peptic ulcer(5marks)	**CO3**
Q 2	Case study: A girl of age 17 years suffers from polydypsea, polyphagia and polyurea. She is not able to do her work because of weakness and pain in legs. Moreover she was continuously losing weight and body fat. On laboratory investigation, the following results were observed	**CO5**

	BLOOD EXAMINATION REPORT a. Glucose (random) – 294 mg/dl b. Glucose Fasting, plasma – 323 mg/dl c. HbA1c – 15.0% d. Estimated average Glucose – 395 mg/dl URINE TEST REPORT (Chemical examination) e. Ketones – positive f. Albumin – trace Microscopic examination RBC – 10-15/HPF Pus cells – 40-45/HPF Questions a) Diagnose the disease (2 marks) b) What is the normal value for HbA1c (2 marks) c) What are the complications related to the disease (3 marks) d) What is ketoacidosis (3 marks) e) How will you manage the patient (5 marks)	
Section D **3. Each Question carries 10 Marks** **4. Instruction: Write long answer.**		
Q 1	A) Explain the secretion of HCl from parietal cells of gastric glands with the help of diagram B) Classify neuroglial cells and write functions of neuroglial cells .	**CO3**
Q 2	A) Explain menstrual cycle (5 Marks) B) Write down the clinical features of hypothyroidism. (5marks)	**CO4**