Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2021

Course: Human Anatomy and Physiology

Program: M.Sc. Microbiology Course Code: HSND7013 Semester: 1 Time 03 hrs.

Max. Marks: 100

SECTION A

Each Question will carry 1.5 Marks

S. No.	Question	CO
Q 1	Which cranial nerve is giving nerve supply to tongue?	CO2
Q 2	Define thrombosis	CO3
Q 3	A patient has increased TSH levels but normal thyroxine levels and no physical symptoms. The patient is suffering from which of the following disorder a) Primary hypothyroidism b) Subclinical hypothyroidism c) Euthyroid d) Hyperthyroidism	CO4
Q 4	What do you mean by white coat hypertension?	CO3
Q 5	Rennin is secreted by	CO1
Q 6	What is leukocytosis?	CO3
Q 7	During flexion of arm, the arm moves a) Forward b) Backward c) Medial d) lateral	CO2
Q 8	Name three gastrointestinal hormones	CO1
Q 9	Nuclei of cranial nerve are located in a) Brain stem b) Spinal cord c) Internal capsule d) Wernicke's area	CO2
Q 10	What is the difference between bleeding time and clotting time?	CO3
Q11	Write down the three stages of deglutition	CO1
Q 12	Define 'anastomosis'	CO3

	Glucagon is secreted from	CO1
Q 14	Write the components of conducting system of heart.	CO3
Q 15	Trypsinogen is converted into active trypsin by	CO1
Q 16	What is 'stroke volume'?	CO3
2 17	Define 'peristalsis'	CO1
218	Give the role of BBB	CO2
19	Chylomicrons are made up of	CO3
20	Pacemaker is the structure in the heart that generates impulses for heart beat forms the pacemaker in the human heart.	CO3
) 1	Differentiate neurotransmitter and hormones.	CO4
2.	Each question will carry 5 marks (not more than 150 words) Instruction: Write short / brief notes	
2 2	Differentiate neurotransmitter and hormones. Write down the composition of blood.	CO4
	write down the composition of blood.	CO4
3	What are the functions of juxta glomerular apparatus	CO1
	Explain the role of cerebro spinal fluid in brain and spinal cord	CO1
2.	Explain the role of cerebro spinal fluid in brain and spinal cord Section C Each Question carries 15 Marks. Instruction:	
1.	Explain the role of cerebro spinal fluid in brain and spinal cord Section C Each Question carries 15 Marks.	

	RBC – 10-15/HPF	
	Pus cells – 40-45/HPF	
	Questions	
	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)	
Q 2	Analyze the following passage and answer the following questions	
	Absorption and utilization of lipids/fats/cholesterol in the body does not happen directly as these	
	molecules are very hydrophobic. These molecules bind with protein/peptide units and the conjugated	
	forms are known as lipoproteins. Different types of lipoproteins are formed in the body with different	
	size, composition and have various functions. Some lipoproteins are considered as BAD some are	
	considered as GOOD. Some of the most commonly known lipoproteins are Chylomicrons, LDL, HDL, VLDL. Given is the structure of lipoprotein.	
	VLDL. Given is the structure of hipoprotein.	
		CO3
	Solitan Solitan	
	Answer the following questions	
	a. Chemically what are lipids? Are they water soluble? (2 marks)	
	b. The protein/peptide unit of lipoprotein is known as What is the role of protein/peptide unit?	
	(2 Marks)	
	c. Name the lipoprotein with highest and the lowest size (2 marks)	
	d. Write the role of LDL, HDL and chylomicrons (6 marks)	
	e. Which lipoprotein is considered as GOOD lipoprotein? (1 mark)	
	f. A patient having a HDL levels of 20mg/dl. What could be the consequences to the patient. (2 marks)	
•	Section D	
	Each Question carries 10 Marks	
	Instruction: Write long answer. (word limit 250 words)	
Q 1	a) Discuss Hymonhyseed nituitery thyroid syis (5 merks)	
	a) Discuss Hypophyseal pituitary thyroid axis. (5 marks)	
	b) Write down the cause and clinical symtoms of Alzheimer's disease. (5 marks)	CO4
0.2	b) Write down the cause and clinical symtoms of Alzheimer's disease. (5 marks)	CO4
Q 2	b) Write down the cause and clinical symtoms of Alzheimer's disease. (5 marks)a) Describe the process of absorption of Carbohydrates. (5 marks)	
Q 2	b) Write down the cause and clinical symtoms of Alzheimer's disease. (5 marks)	CO4 CO2