Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Supplementary Examination, December 2023

Course: Human Anatomy & Physiology I Semester: 1st
Program: BSc/Integrated BMSc -MB./N&D.

Course Code: HSCC1002 Max. Marks: 100

Instructions: Read all questions carefully.

S. No.	Section A		COs
	Short answer questions/ MCQ/T&F		
	(20Qx1.5M=30 Marks)		
Q			
1	are known as the powerhouse of the cell.	1.5	CO 1
2	The lymphatic system plays role in immunity. (True/False)	1.5	CO 1
3	List the four phases of mitosis.	1.5	CO 1
4	Calculate the patient's cardiac output when her heart rate and stroke volume is 80 bpm and 70 mL respectively.	1.5	CO 1
5	Define Homeostasis.	1.5	CO 1
6	Lymph nodes are also referred as	1.5	CO 1
7	Draw the structure of heart.		CO 1
8	Name the formed elements found in blood.	1.5	CO 1
9	The study of bone and teeth is known as	1.5	CO 1
10	Sketch the well-labelled diagram of cross-section of skin.	1.5	CO 1
11	Identify the bone highlighted in red?	1.5	CO1
12	The cross striated involuntary muscles found in the myocardium of heart are known as	1.5	CO 1
13	Hemophilia is a genetic clotting disorder. (True/False)	1.5	CO 1

14	Determine the blood group. A Remain Same as Earlier B Shows Agglutination D Shows Agglutination	1.5	CO 1
15	Name the plane dividing the body vertically.	1.5	CO 1
16	Identify the bones. Parietal (2) Temporal (2) B	1.5	CO 2
17	Mark the steps of heart conduction pathway.	1.5	CO 3
18	Identify the blood cells and write their function. A ? B B	1.5	CO 3
19	Sketch a well labelled diagram of nerve cell.	1.5	CO 3
20	Write the different functions of skin.	1.5	CO 3

		Section (4Qx5M=20			
21	Differentiate with exaleads to homeostasis.	ample how negative	feedback mechanism	5	CO 4
22	Compare and mentimeiosis.	5	CO 4		
23	Defend the important	role of sympathetic	nervous system.	5	CO 3
24	Support and explain of		-	5	CO 4
	11	Section	, ,		
		(2Qx15M=30			
25	was tested for blood followed. Test Name	l catecholamine leve	ng ground, an athlete els. The report is as Measure	15	CO 2
	Epinephrine Name in a state of	131 pg/mL	High		
	Norepinephrine Dopamine	1350 pg/mL 27 pg/mL	High High		
	b) Draw the chemic	-	philine: (2.e marks)		
26	system? (10 mar	ks)	olled by this nervous	15	60.2
26	system? (10 mar The complete blood table below.	ks) count report of Nain	na is provided in the	15	CO 3
26	system? (10 mar The complete blood table below. Test Name	ks) count report of Nain Value	na is provided in the Reference	15	CO 3
26	system? (10 mar The complete blood table below.	ks) count report of Nair Value 2.65 million	na is provided in the Reference 3.92-5.13 million	15	CO 3
26	system? (10 mar The complete blood table below. Test Name Red blood cell count	ks) count report of Nain Value 2.65 million cells/mcL	Reference 3.92-5.13 million cells/mcL	15	CO 3
26	system? (10 mar The complete blood table below. Test Name Red blood cell count Hemoglobin	ks) count report of Nain Value 2.65 million cells/mcL 9.4 grams/dL	Reference 3.92-5.13 million cells/mcL 11.6-15 grams/dL	15	CO 3
26	system? (10 mar The complete blood table below. Test Name Red blood cell count	ks) count report of Nain Value 2.65 million cells/mcL	Reference 3.92-5.13 million cells/mcL	15	CO 3
26	system? (10 mar The complete blood table below. Test Name Red blood cell count Hemoglobin White blood cell	ks) count report of Nain Value 2.65 million cells/mcL 9.4 grams/dL	Reference 3.92-5.13 million cells/mcL 11.6-15 grams/dL 3,400 to 9,600	15	CO 3
26	system? (10 mar The complete blood table below. Test Name Red blood cell count Hemoglobin White blood cell count Platelet count a) Make an inference	Value 2.65 million cells/mcL 9.4 grams/dL 11,780 cells/mcL 3,14,000 cells/mcL	Reference 3.92-5.13 million cells/mcL 11.6-15 grams/dL 3,400 to 9,600 cells/mcL 157,000 to 371,000 cells/mcL	15	CO 3
26	system? (10 mar The complete blood table below. Test Name Red blood cell count Hemoglobin White blood cell count Platelet count a) Make an inference b) Give a brief descri	Value 2.65 million cells/mcL 9.4 grams/dL 11,780 cells/mcL 3,14,000 cells/mcL	Reference 3.92-5.13 million cells/mcL 11.6-15 grams/dL 3,400 to 9,600 cells/mcL 157,000 to 371,000 cells/mcL dicate? (5 marks) arious components of	15	CO 3
26	system? (10 mar The complete blood table below. Test Name Red blood cell count Hemoglobin White blood cell count Platelet count a) Make an inference b) Give a brief descri	Value 2.65 million cells/mcL 9.4 grams/dL 11,780 cells/mcL 3,14,000 cells/mcL e of what the result in ciption the role of value	Reference 3.92-5.13 million cells/mcL 11.6-15 grams/dL 3,400 to 9,600 cells/mcL 157,000 to 371,000 cells/mcL dicate? (5 marks) rious components of	15	CO 3
26	system? (10 mar The complete blood table below. Test Name Red blood cell count Hemoglobin White blood cell count Platelet count a) Make an inference b) Give a brief descri	Value 2.65 million cells/mcL 9.4 grams/dL 11,780 cells/mcL 3,14,000 cells/mcL e of what the result in ription the role of value Section (2Qx10M=20)	Reference 3.92-5.13 million cells/mcL 11.6-15 grams/dL 3,400 to 9,600 cells/mcL 157,000 to 371,000 cells/mcL dicate? (5 marks) prious components of	15	CO 3

human body.	