
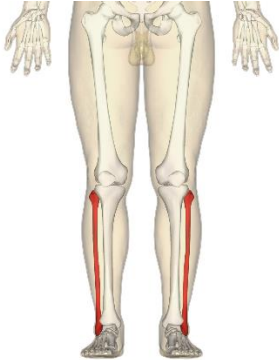
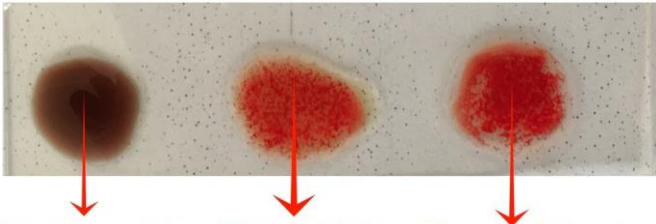
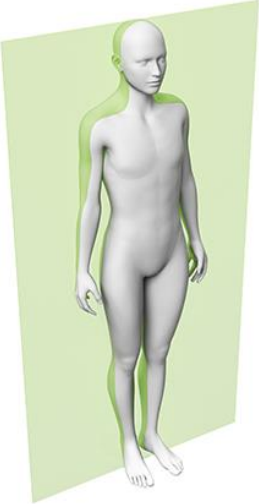
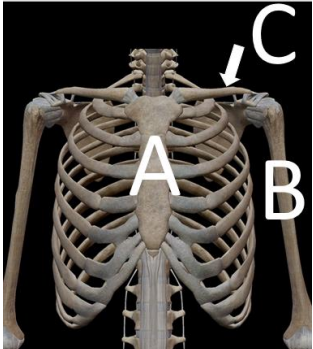


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2022			
Course: Human Anatomy & Physiology I Program: BSC/Int BMSC – CR./MB./N&D. Course Code: HSCC1002		Semester: 1st Duration: 3 Hours Max. Marks: 100	
Instructions: Read all questions carefully.			
S. No.	Section A	Marks	COs
	Short answer questions/ MCQ/T&F (20Qx1.5M= 30 Marks)		
Q			
1	_____ are known as the suicidal bags of the cell.	1.5	CO 1
2	The integumentary system includes skin and its appendages (hairs, nails, sweat glands and sebaceous glands). (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 100 bpm and 70 mL respectively.	1.5	CO 1
5	Define cell division.	1.5	CO 1
6	The articular cavity (or the joint cavity), which is filled with a fluid called _____.	1.5	CO 1
7	Draw the structure of heart.	1.5	CO 1
8	Name the formed elements found in blood.	1.5	CO 1
9	The study of structure and function of body organs 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	CO 1
12	The cell which consist of cell body, a major branching fiber (axon) and numerous smaller branching fibers (dendrites) is known as _____.	1.5	CO 1

13	Cellular respiration is the metabolic reactions that take place in the cells to convert chemical energy into adenosine triphosphate. (True/False)	1.5	CO 1
14	<p>Determine the blood group.</p>  <p>A Remain Same as Earlier B Shows Agglutination D Shows Agglutination</p>	1.5	CO 1
15	<p>Name the plane dividing the body vertically.</p> 	1.5	CO 1
16	<p>Identify the bones.</p> 	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.	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 B (4Qx5M=20 Marks)			
21	Differentiate with example how positive feedback mechanism leads to homeostasis.	5	CO 4
22	Discuss the distinctions between eukaryotes and prokaryotes.	5	CO 4
23	Explain the process of signal transduction in nerve cell.	5	CO 3
24	Explain the existence of blood typing.	5	CO 4
Section C (2Qx15M=30 Marks)			
25	Categorize with numbers and provide a full description of the cranial bones and rib cage.	15	CO 2
26	Using a diagram, demonstrate the cell division process of somatic cells.	15	CO 3
Section D (2Qx10M=20 Marks)			
27	Evaluate and give the role of various blood components.	10	CO 2
28	Examine the concept of the human body's structural levels of organization.	10	CO 4