

Name:
Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Theory Examination, December 2019

Course: Human Anatomy and Physiology
Program: B.Pharm
Course Code: BP101T
Instructions: Read the Question Paper Carefully.

Semester: I
Time 03 hrs.
Max. Marks: 75

SECTION A

S. No.	CO	Multiple Choice Questions (20X1) or Objective type Questions (10X2)	Marks
Q1			20
1	CO3	Enlist the four basic type of human tissue.	2
2	CO5	What is the function of Pectoral girdle?	2
3	CO2	Define the term “hemopoiesis”.	2
4	CO4	Give the composition of lacrimal apparatus.	2
5	CO2	Define the term “Pulse”.	2
6	CO1	Give the names of skin disorders caused by viral infections (two).	2
7	CO3	Blood is atissue.	1
8	CO3	How many pairs of the cranial nerves originate in the brain? A) 8 B) 10 C) 12 D) 14	1
9	CO1	The ____ system transports oxygen, carbon dioxide, nutrients, and wastes throughout the body, in the blood. A) Respiratory B) Circulatory C) Excretory D) Integumentary	1
10	CO5a membrane that lines the outer surface of all bones, except at the joints of long bones.	1
11	CO2	Blood pressure is usually expressed as: A) diastolic pressure over systolic pressure B) systolic pressure over diastolic pressure C) diastolic pressure over pulse pressure D) pulse pressure over diastolic pressure	1
12	CO3	The cellular organelle responsible for digesting exhausted organelles is the.....	1
13	CO5	Give one example of each A) Movable Joint	2

		B) Immovable Joint	
SECTION B			
Long Answers (Answer two out of 3) 2X10			
Q2			20
1	CO1	Give general principle of cell communication and explain intracellular signaling pathway in detail.	(5+5)
2	CO5	Draw neat and labelled diagram of Heart. Explain cardiac cycle in detail.	(2+8)
3	CO2	Define Hemostasis. Write in detail about the mechanism of Blood Coagulation.	(2+8)
SECTION C			
Short Answers (Answer 7 out of 9) 7X5			
Q3			35
1	CO3	Differentiate between sympathetic and parasympathetic nervous system.	5
2	CO2	Write a note on composition and function of lymph.	5
3	CO1	Write in brief about the structure and function of Plasma membrane.	5
4	CO2	Discuss the factors responsible in regulating Blood Pressure.	5
5	CO5	Give structure and composition of bone.	5
6	CO4	Describe the mechanism of hearing.	5
7	CO5	Give the physiology of muscle contraction.	5
8	CO2	Define blood group. Write in brief about the types of blood group.	2+3
9	CO3	What are connective tissues? Classify the types of connective tissues with examples.	2+3
		Total	75