

Programme: BPT
Course: Physiology I
Course Code: 23A102
Enrolment no. _____

Full Marks: 70
Time: 3 Hrs.

Q.No.	Questions	CO	Bloom Taxonomy Category	Marks
Section I				
1	Short Answer type questions.			4 x 5 = 20
a	Write about the different cell junctions.	CO1	Remember	
	or			
b	Distinguish between active and passive transport.	CO1	Understand	
	or			
c	Explain about the phenomenon that will happen if a Rh positive mother is carrying a Rh positive fetus.	CO2	Apply	
	or			
d	What are the three main stages of hemostasis.	CO2	Remember	
	or			
e	Explain the role of thoracic cavity in respiration.	CO3	Understand	
	or			
f	Elaborate the mechanism of gaseous exchange in lungs.	CO3	Understand	
	or			
g	Explain any 2 pathological variations of lymph flow in detail.	CO4	Understand	
	or			
	What is the primary function of systemic circulation? Name the main artery and vein involved in systemic circulation.	CO4	Remember	
Section II				
Long Answer type questions.				
2	Explain Homeostasis and body's various feedback controls in order to attain homeostasis.	CO1	Understand	3 x 10 = 30
	or			
3	Draw a well labeled diagram of an animal cell and write down about any 5 cell organelles.	CO1	Remember	
	or			
4	What are the different blood groups, and why is it important to match blood groups during transfusion?	CO2	Analyze	
	or			
5	Discuss about the ABO blood group and how can we find out someone's blood group. Describe the procedure for determining blood group using ABO and Rh systems.	CO2	Apply	
	or			
6	Explain how the fetal and placental circulations differ from those in the adult, and explain how these differences support fetal development.	CO4	Understand	
	or			
	Describe in detail about the pathological condition that will due to an impaired cerebral blood flow.	CO4	Understand	
Section III				
Application based questions				
7	Analyze the pathophysiology of asthma and emphysema. How do these conditions affect the respiratory system, and what physiological mechanisms are involved in their management?	CO3	Analyze	1 x 20 = 20
	or			
	Critically examine the role of neural and chemical control of breathing in regulating respiratory activity during hypercapnia and hypocapnia. How do these mechanisms contribute to homeostasis?	CO3	Analyze	

COURSE OUTCOME

- CO1 Able to identify structure and function of cell.
- CO2 Have a knowledge of blood and its components and function.
- CO3 Acquire the knowledge of cardiac and respiratory systems of human body
- CO4 Knowledge of ECG and Circulatory System