

**Programme: BPT**  
**Course: Physiology-II**  
**Course Code: 23A202**  
**Enrolment no. \_\_\_\_\_**

**Full Marks: 70**  
**Time: 3 Hrs.**

Q.No.	Questions	CO	Bloom Taxonomy Category	Marks
<b>Section I</b>				
1	<b>Short Answer type questions.</b>			
a	Explain the process of wallerian degeneration.	CO2	Understand	<b>4 x 5 = 20</b>
	or			
b	Write in detail about the pressures affecting the process of glomerular filtration.	CO2	Rememeber	
	or			
c	Differentiate between isometric and isotonic muscle contractions.	CO1	Rememeber	
	or			
d	What are the types of nerve fibers, and how do they differ?	CO1	Rememeber	
	or			
e	Write a short note on Sarcomere along with its diagrammatic representation.	CO2	Rememeber	
	or			
f	Discuss about the action of pancreatic hormones.	CO2	Rememeber	
	or			
g	Describe the structure and function of the neuromuscular junction.	CO1	Rememeber	
	or			
h	Describe the structure of a nerve cell.	CO1	Rememeber	
	or			
<b>Section II</b>				
<b>Long Answer type questions.</b>				
2	Explain in detail about the countercurrent mechanism and its role in concentration of urine	CO2	Apply	<b>3 x 10 = 30</b>
	or			
3	Write in detail about the nerve supply of urinary bladder and what will be the result when there is injury at the level of : a)T <sub>12</sub> - L <sub>2</sub> b)S <sub>2</sub> -S <sub>4</sub>	CO2	Analyze	
	or			
4	How is the corticospinal tract different from other motor pathways in the body. What happens to movement if this pathway is damaged?	CO2	Analyze	
	or			
5	Explain the role and importance of brainstem in normal human physiology.	CO2	Evaluate	
	or			
6	Write down the properties of skeletal muscle and explain about the strength-duration curve.	CO1	Rememeber	
	or			
7	Discuss in detail about the sequence of events during neuromuscular transmission.	CO1	Rememeber	
	or			
<b>Section III</b>				
<b>Application based questions.</b>				
8	Assess the clinical importance of cranial nerve examination in neurological diagnosis. How can abnormalities in specific cranial nerves guide healthcare professionals in localizing lesions within the nervous system?	CO3	Evaluate	<b>1 x 20 = 20</b>
	or			
9	Examine the role of dermatomes and myotomes in clinical sensory and motor assessments. How can their mapping help in diagnosing spinal cord injuries or peripheral nerve damage?	CO3	Analyze	
	or			

**COURSE OUTCOME**

**At the end of course, candidate will able to**

CO1 Acquire the knowledge of the relative contribution of each organ system in maintenance of themilieu interior [Homeostasis]

CO2 Be able to describe physiological functions of various systems, with special reference to Neuro-motor, female uro-genital function, and alterations in function with aging.

CO3 Acquire the skill of basic clinical examination, with special emphasis to peripheral and central nervous system.