

Roll No:				

## The Assam Royal Global University, Guwahati

Royal School of Medical and Allied Sciences Bachelor of Physiotherapy, 2<sup>nd</sup> Semester Semester End Examination, June 2023 Course Title: Biomechanics-II

Course Code: PHT242C213

Tin	ne: 3 Hours	Maximum Marks: 70			
	Note: Attempt all questions as per instructions The figures in the right-hand margin indicate m	given. parks.			
Section – A					
1.	Attempt all questions. (Maximum word limit 50)	2 x 8			
	<ul><li>a. Describe about closed chain and open chain kinematics.</li><li>b. What is pelvifemoral rhythm?</li><li>c. Define Atypical Vertebrae. Give examples</li></ul>				
	<ul><li>d. What is Synovial Joint?</li><li>e. Define Static and dynamic posture.</li><li>f. What is Postural sway?</li></ul>				
	g. Define kinetics and kinematics of gait.				
	h. Write the major tasks of gait.  Section - B				
2.	Attempt any one of the following:	12 x 1			
	<ul><li>a. Explain the general properties of connective tissues.</li><li>b. Write the function of hip joint.</li></ul>				
3.	Attempt any two of the following:	7 x 2			
	<ul><li>a. Discuss the structure and functions of Cervical Spine</li><li>b. Explain the Lumbar Pelvic Rhythm in detail.</li><li>c. Write in details about the articulations of Thorax.</li></ul>				
4.	Attempt any two of the following:	7 x 2			
	<ul><li>a. Explain fixed support strategies of posture.</li><li>b. Detail out the analysis of posture in sagittal plane.</li><li>c. Explain their views of posture with examples.</li></ul>				
5.	Attempt any two of the following:	7 x 2			
	<ul><li>a. What is gait and gait cycle? Explain the phases and events of</li><li>b. Describe about kinetics and kinematics variables of gait.</li><li>c. Write about the patellofemoral articular surfaces and joint con</li></ul>				