

**VIT****Vellore Institute of Technology**
(Deemed to be University under section 3 of UGC Act, 1956)**School of Electronics Engineering**
WS_2024-25 (CAT-I)**Course Code** : BHST205L**Duration** : 90 Minutes.**Course Name** : Applied Human Anatomy and Physiology**Class number** : VL2024250506186**Faculty Name** : Dr. Kishor Lakshminarayanan**Slot** : C1+TC1**Max. Marks** : 50M**Answer all the questions and draw diagrams wherever necessary**

S. No	Question Text	Marks	BL	CO
Q1	Analyze the process of bone formation in stages and examine how each stage contributes to overall skeletal development.	10	BL4	CO1
Q2	Critique the molecular mechanism of muscle contraction and evaluate the role of calcium ions and ATP in this process.	10	BL5	CO1
Q3	Label the anatomical structures of the heart and explain their functions in maintaining blood flow.	10	BL2	CO2
Q4	Illustrate the phases of the cardiac cycle and interpret their importance in coordinating heart function.	10	BL3	CO2
Q5	Evaluate the structure and function of erythrocytes and analyze how their abnormalities can lead to blood disorders.	10	BL5	CO2