

1. Explain how Newton's Three Laws of Motion apply to a specific sport of your choice providing specific examples for each law. [25]
2. Describe the factors that influence the trajectory of a soccer ball during a free kick and explain how a player can optimize these factors for maximum distance and accuracy.[25]
3. Analyze the factors that determine an object's co-efficient of restitution [25]
4. i) Using examples from a sport setting, explain the 5 principles of equilibrium [15]
ii) Define linear, angular, and general motion, and provide examples of each type of motion in a sport of your choice. [10]
5. Draw a diagram to show the following angles in impact rebound
i) Angle of rebound
ii) Angle of reflection
iii) Angle of incident
iv) Theoretical rebound
v) Angle of approach [15]

END OF PAPER