



SNS COLLEGE OF PHYSIOTHERAPY
(Affiliated by the Tamil Nadu Dr. M. G. R. Medical University, Chennai.)
Saravanampatti Post, Coimbatore



These questions are under taken by TNMGRU,RRB,MRB MECHANICS – QUESTION TABLE

Q.No	Question	Description	Marks	D. T Level	Bloom' s Taxonomy
1	Define Mechanics and Biomechanics.	Assess understanding of basic definitions.	2	Recall	Remember
2	Explain the diagrammatic representation of force.	Student illustrates force using vectors.	3	Understanding	Understand
3	Classify different types of forces with examples.	Tests ability to categorize forces.	3	Conceptual	Understand
4	Differentiate concurrent, coplanar, and colinear forces.	Evaluates conceptual clarity of force systems.	3	Conceptual	Analyze
5	Explain composition and resolution of forces.	Application of vector principles to forces.	4	Application	Apply
6	Describe the angle of pull of muscle with an example.	Evaluates knowledge of muscle mechanics.	3	Application	Apply
7	Define gravity and explain line of gravity.	Basic understanding of gravitational concepts.	2	Recall	Remember
8	Explain Centre of Gravity and its clinical relevance.	Tests conceptual understanding + PHYSIO application.	3	Applied Theory	Apply
9	Define equilibrium and explain types.	Understanding stable, unstable, neutral equilibrium.	3	Conceptual	Understand
10	Explain supporting base and its role	Relates mechanics to posture &	3	Applied	Apply



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	in maintaining equilibrium.	stability.			
11	Describe pulleys and explain different pulley systems.	Identification and classification.	3	Understanding	Understand
12	State the applications of pulleys in physiotherapy.	Practical application (traction, exercises).	3	Practical	Apply
13	Define springs and list their properties.	Basic recall of mechanical properties.	2	Recall	Remember
14	Explain springs in series and parallel arrangements.	Conceptual comparison of spring systems.	3	Conceptual	Analyze
15	List elastic materials used in physiotherapy.	Application to clinical tools (Theraband, etc.).	2	Applied	Remember/Apply
16	Define lever and explain its functions.	Basic understanding.	2	Recall	Remember
17	Classify levers with diagrams.	Tests classification skills and diagrammatic ability.	3	Conceptual	Understand
18	Give human-body examples for each type of lever.	Physiotherapy-related examples.	3	Applied	Apply
19	Define speed and velocity with formulas.	Recall + basic numerical understanding.	3	Knowledge	Remember
20	Define work, energy, and power with examples.	Understanding physical quantities.	3	Conceptual	Understand
21	Define acceleration and	Relates biomechanics to	3	Applied	Apply



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Q.No	Question	Description	Marks	D.T Level	Bloom' s Taxonomy
	momentum with clinical examples.	movement.			
22	State Newton' s three laws with physiotherapy application.	Deep conceptual + applied understanding.	5	Higher Order	Analyze/Apply
23	Define friction and describe its types.	Understanding mechanical resistance.	3	Conceptual	Understand
24	Explain the clinical relevance of friction in gait and transfers.	Applied biomechanics in rehabilitation.	3	Applied	Apply
25	Define elasticity.	Simple recall.	2	Knowledge	Remember
26	Explain stress and strain with diagrams.	Understanding material deformation.	3	Conceptual	Understand
27	State Hooke' s Law and give an example.	Application of linear elasticity.	3	Applied	Apply