

**SIR CV RAMAN COACHING CENTRE – IDAPPADI, SALEM -2025****XI- PHYSICS -FULL PORTION-CREATIVE QUESTIONS-2025****PREPARED BY Dr.G.THIRUMOORTHY,M.Sc,B.Ed,Ph.D,PHYSICS,****[thiruphysics1994@gmail.com](mailto:thiruphysics1994@gmail.com), 8610560810, 8883610465****TOTAL QUESTION : 50**

1. Define light year
2. What is AU
3. What is fractional error
4. Advantages of SI System
5. What is par sec
6. Define Round off
7. Explain 1D,2D,3D with suitable examples
8. Types of motion
9. What is relative velocity
10. Examples of projection motion
11. Define time of flight
12. What is orthogonal vector
13. Systematic steps followed Free body diagram
14. Define kinetic energy
15. Define potential energy
16. Relation between momentum and kinetic energy
17. Derive rotational kinetic energy
18. Prove that  $U = mgh$
19. Prove that  $F = ma$
20. What is centre Explosions
21. Define moment of inertia
22. Comparison of rotational and translational motion
23. Define Torque
24. Water falls from the top of a hills ground Why ?
25. What is contact and non contact force
26. Define plasticity
27. Define shear modulus
28. What is Elastic limit
29. Practical application of stokes law
30. Examples of surface tension
31. Application of elasticity
32. Application of angles of repose
33. Application Bernoullies theorem
34. Define Triple point
35. Gives examples of irreversible process
36. Stress- strain profile curve diagram
37. No hydrogen in earth's atmosphere Why ?
38. Define Triatomic molecules
39. Examples of oscillator motion
40. Comparison of transverse and Longitudinal waves
41. Classification of sound waves

42. Define mach number
43. What is Reverberation
44. Define particle velocity
45. Define wave velocity
46. What is harmonics
47. Doppler effect sound asymmetric while that in light is symmetric why ?
48. What is natural frequency
49. State weber Fechner law
50. Relation between particle and wave velocity

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