

Question Paper 2023-2024

Subject- Physics

Total: 100 marks

- Q1. Explain Newton's First Law of Motion.      5 marks
- Q2. Define kinetic energy.      5 marks
- Q3. What is the formula for acceleration?      5 marks
- Q4. Differentiate between mass and weight.      5 marks
- Q5. Explain the concept of work in physics.      5 marks
- Q6. State and explain the law of conservation of energy.      5 marks
- Q7. Define impulse and its relationship with momentum.      5 marks
- Q8. Discuss the work-energy theorem.      5 marks
- Q9. Explain the principle of conservation of mechanical energy.      5 marks
- Q10. Define power in the context of physics.      5 marks
- Q11. Discuss the concept of potential energy.      5 marks
- Q12. Explain the relationship between force, work, and energy.      5 marks
- Q13. Define momentum and its importance in physics.      5 marks
- Q14. Discuss the role of friction in energy conservation.      5 marks
- Q15. Explain the concept of torque and rotational equilibrium.      5 marks
- Q16. Define angular momentum and its conservation.      5 marks
- Q17. Discuss the concept of elasticity and plasticity in materials.      5 marks
- Q18. Explain the laws of motion in a rotational system.      5 marks
- Q19. Define moment of inertia and its significance.      5 marks
- Q20. Discuss the effects of external forces on rotational motion.      5 marks

end of questions