

UNSOLVED

Physics	9th Class (2022)	Lahore Board
Time: 1:45 Hours	Subjective Type	Marks:48

(GROUP - I)**Part - I****2 Write short answers to any Four (4) questions: (10)**

- i. Define prefixes and give two example.
- ii. Differentiate between rest and motion.
- iii. Define force and write down its SI units.
- iv. State the law of conservation of momentum.
- v. What is meant by base units and derived units?
- vi. Write any two differences between mass and weight.
- vii. Define random motion and write down one example.
- viii. Write down the SI units of temperature electric current force and electric charge.

3 Write short answers to any Four (4) questions: (10)

- i. Define Torque and Moment Arm.
- ii. What is meant by plumb line?
- iii. What is meant by geostationary orbit?
- iv. Describe law of gravitation and Newton's third law of motion.
- v. How the value of 'g' varies with altitude?
- vi. Define Work and its SI unit.
- vii. Define Biomass Energy and Geothermal Energy.
- viii. What is meant by Power and Watt?

4 Write short answers to any Four (4) questions: (10)

- i. Why does the atmospheric pressure vary with weight?
- ii. State Hooks Law.

- iii. Define pressure and write its formula.
- iv. Differentiate between temperature and heat.
- v. Define latent heat of fusion.
- vi. Conduction of heat does not take place in gases, give reason.
- vii. What is meant by Convection Current?
- viii. Write two uses of good conductors.

Part - II**Note: Attempt any TWO questions.****5 (a) Derive the second equation of motion with the help of speed time graph.**

(b) How much the force of friction between a wooden block of mass 5 kg and the horizontal marble floor? The coefficient of friction between wood and the marble is 0.6.

6 (a) What is meant by Kinetic Energy? Derive its equation.

(b) A force is acting on a body making an angle of 30° with the horizontal. The horizontal component of the force is 20 N. Find the force.

7 (a) Derive an equation for the pressure at some depth in a liquid

(b) How much heat is required to increase the temperature of 0.5 kg of water from 10°C to 65°C .