9th CLASS GUESS PAPER- 2022

PHYSICS.

UNIT NO. 1 PHYSICAL QUANTITIES AND MEASUREMENT.

SHORT OUESTIONS.

- 1. Describe two advantages of physics in daily life.
- 2. Define Plasma Physics and Geophysics
- 3. Define Base quantities and write names to four base quantities.
- 4. Define base and derived quantities.
- 5. What is meant by prefixes? Write an example.
- 6. Define Scientific notation.

LONG OUESTIONS.

1. A Chocolate wrapper is 6.7 cm long and 5.4 cm wide. Calculate its area upto reasonable number of significant figures.

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2. Your hair grow at their of 1 mm per day Find their growth rate in nm s-1

UNIT NO. 2 KINEMATICS.

SHORT OUESTIONS.

- 1. Define Translatory motion and give an example.
- 2. Define Random motion and give example.
- 3. Define vibratory motion and give its example.
- 4. Define velocity and SI Unit of velocity.
- 5. Difference between Scalar and Vector.
- 6. Define acceleration and write its SI unit.

LONG OUESTIONS.

- 1. Prove with the help of graph Vf = Vi + at
- 2. Derive Second equation.
- 3. Derive equation of motion with the help of speed time graph.

UNIT NO. 3 **DYNAMICS.**

SHORT QUESTIONS.

- 1. State Newton's first law of motion.
 2. Difference between Mass and Weight
- 3. Define Newton's 3rd law of motion. Give an example.
- 4. Why rolling friction is less than sliding friction.
- 5. What is meant by Braking and skidding?
- 6. What is meant by tension of string?
- 7. Define co-efficient of friction and it's write it equation.
- 8. Define Centripetal force and centrifugal force.

LONG OUESTIONS.

- 1. Write the advantages and disadvantages of friction.
- 2. Problem: 3.8, 3.10 www.illmikidlumys.com

UNIT NO. 4 TURNING EFFECT OF FORCES.

SHORT OUESTIONS.

- 1. What are like and unlike parallel forces?
- 2. Define Resolution of forces.
- 3. Define rigid body and line of action of forces.
- 4. Define Equilibrium.
- 5. What is meant by neutral equilibrium?
- 6. State second condition for equilibrium and write its formula.
- 7. What is meant by unstable equilibrium?

LONG OUESTIONS.

1. Define torque or moment of force. Explain on what factors does it depend?

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- 2. State and explain in conduction for equilibrium.
- 3. Problem: 4.9

UNIT NO. 5 **GRAVITATION.**

SHORT OUESTIONS.

- 1. Why law of Gravitation is important to us?
- 2. Define law of gravitation and write its equation.
- 3. What is gravitational field?
- 4. Define field force and gravitational field strength.
- 5. Give the orbital speed formula for Artificial Satellite.
- 6. How the mass of earth can be determine.
- 7. Define field force.
- 8. What are natural satellite?
- 9. Difference between 'G' and 'g'.
- 10. Write the value of "G" and write SI unit.

LONG OUESTIONS.

- 1. Determine the mass of earth using the law of gravitation.
- 2. Derive the equation of motion of artificial satellites.

UNIT NO. 6 WORK AND ENERGY.

SHORT OUESTIONS.

- 1. Define Jule.
- 2. What is meant by light energy?
- 3. Define potential energy and write its equation.
- 4. What is meant by Nuclear Energy?
- 5. Write down the two disadvantages of fossil fuels.
- 6. Define efficiency and write its equation.
- 7. What is meant by power? Define its SI Unit.
- 8. On which factors work depend.

LONG OUESTIONS.

- 1. Write the four uses of solar energy.
- dlululy2.com 2. Explain electrical energy and sound energy.
- 3. Example No. 6.7 : Problem: 6.6

<u>UNIT NO. 7</u> PROPERTIES OF MATTER.

SHORT OUESTIONS.

- 1. The mass of 200 cm³ of stone is 500 gram. Find its density.
- 2. Define features of kinetic molecular model of matter.
- 3. Define Hooke's law
- 4. State Young's Modulus.
- 5. Define Density and Elasticity.
- 6. Define Pressure and give it unit.
- 7. Why does a piece of stone sink in water but a ship with a huge weight floats

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- 8. Define elasticity.
- 9. Differentiate between Stress and Strain.
- 10. State the Pascal's law.
- 11. State Archimedes principle.

LONG OUESTIONS.

- 1. Problem: 7.9
- 2. State Pascal's law and explain hydraulic press

THERMAL PROPERTIES OF METTER. UNIT NO. 8

SHORT OUESTIONS.

- 1. How does heating affect the motion of molecules of a gas?
- 2. Convert 100 °F temperature into Celsius scale.
- 3. Define Specific heat.
- 4. Difference between heat and temperature.
- 5. Define Latent Heat of fusion.
- 6. Why gaps are left in railway tracks?
- 7. Define lower and fixed points.

LONG OUESTIONS.

- 1. Define linear thermal expansion in solids. Derive its formula.
- 2. Problem: 8.3

UNIT NO. 9

SHORT OUESTIONS.

- 1. Write name of two expert Thermal riders.
- 2. What is meant by convection currents?
- 3. Difference between land and sea breezes?
- 4. Define Radiation.
- 5. Define convention and conduction.
- 6. Define thermal conductivity of the substance.
- 7. We wear white and light coloured clothes in summer why?
- 8. Write two use good conductor.

LONG OUESTIONS.

1. Define Specific heat. How would you find the specific heat of a solid?