

Paper: PhysicsTotal Marks: 12Month Test: November

Obt. Marks: _____

Theme/Unit: 5 – 9Grand Total: 75

Objective: _____ ID: _____

Time: 15 minsName: _____ class: 9th

Section: _____

Q. No. 1: Encircle the correct answer:

- The value of g at a height one earth's radius above the surface of the earth is:
 - $2g$
 - $\frac{1}{2}g$
 - $\frac{1}{3}g$
 - $\frac{1}{4}g$
- The orbital speed of a low orbit satellite is _____ ms^{-1} .
 - Zero
 - 8
 - 800
 - 8000
- Earth's gravitational force of attraction vanishes at _____ km.
 - 64000
 - Infinity
 - 1000
 - None
- The kinetic energy of a body of mass 2kg is 25J. Its speed is _____ ms^{-1} .
 - 5
 - 12.5
 - 25
 - 50
- Which one of the following converts light energy into electrical energy.
 - Electric bulb
 - Electric generator
 - Photocell
 - None
- The work done in lifting a brick of mass 2kg through a height of 5m above ground will be _____ J.
 - 2.5
 - 10
 - 100
 - 50
- The density of substance can be found with the help of:
 - Pascal's law
 - Hooke's law
 - Archimedes principle
 - Principle of flotation
- Melting point of nitrogen is _____:
 - -201°C
 - -219°C
 - 327°C
 - 1083°C
- Heat of vaporization of Gold is _____ kJ.
 - 210
 - 858
 - 10500
 - 1580
- Normal human body temperature is _____.
 - 15°C
 - 37°C
 - 98.6°C
 - 37°C
- In solids heat is transformed by:
 - Radiation
 - Convection
 - Conduction
 - None
- Land breeze blows from:
 - Sea to land during night
 - Sea to land during day
 - Land to sea during night
 - Land to sea during day

Paper: PhysicsTotal Marks: 63Month Test: November

Obt. Marks: _____

Theme/Unit: 5 – 9Grand Total: 75

Subjective:

ID: _____

Time: 2 hour

Name: _____

class: 9th

Section: _____



Short Answers: /30

Q. No. 1:

- i. State kinetic molecule model of matter?
- ii. Describe fourth state of matter?
- iii. State law of gravitation?
- iv. Write names of four forms of energy?
- v. Write two parts of solar house heating system?
- vi. Define pressure and write its unit?
- vii. Differentiate b/w stress and strain?
- viii. Convert 100°F into celcius scale?
- ix. Define convention?
- x. What causes a glider to remain in air?
- xi. What do you know about greenhouse effect?
- xii. On which two factors flowing ratio depends in solid objects?
- xiii. What is meant by convection current?
- xiv. State principle of rotation?
- xv. Why are metals good conductor of heat?

Long Questions:

- 1) a: Define young's modulus and derive its mathematical equation. /6
 b: How much heat is refuined to increase the temperature of 0.5 kJ of water from 10°C to 65°C . /5
- 2) a: Explain volumetric thermal expansion and also derive its equation. /6
 b: Calculate power of a pump which can lift 200kg of water through a height of 6m in 10 seconds? /5
- 3) How mass of earth can be determined? /6
 b: How much heat is lost in an hour through a glass window measuring 2m by 2.5m when inside temperature is 25°C and that of outside is 5°C . the thickness of glass is 0.8 cm and value of K for glass is $0.8 \text{ Wm}^{-1}\text{k}^{-1}$? /5