

MODEL ENTRANCE TEST PAPER

SUBJECT: PHYSICS

GRADE: 8

TOTAL MARKS: 10

I. Fill in the blanks: [3 Marks]

1. S.I. unit of temperature is
2. To every action, there is an and reaction.
3. Weight is measured by a balance and from place to place.
4. Pressure = $\frac{\text{.....}}{\text{Area}}$.

II. Use your Physics to explain the following: [2 Marks]

1. It is useful for camels to have large flat feet.
2. Copper or Aluminum pans are better than iron ones.
3. Thick glass beakers and milk bottles sometimes crack if boiling water is put in them.
4. In hot countries, people wear bright white clothes and paint their houses white.

III. Distinguish between Mass and Weight. [1 Mark]

IV. Define the following: [2 Marks]

- (a) Conduction (b) pressure

V. Choose the correct answer: [2 Marks]

1. S.I. unit of speed is
(a) m/s (b) ms^{-2} (c) ms (d) m
2. Density =
(a) Mass \times volume (b) mass + volume

(c) Mass \div volume

(d) mass – volume

3. Which of the following is not a vector quantity?

(a) Force

(b) velocity

(c) Acceleration

(d) time

4. The extension is directly proportional to the stretching force is

(a) Newton's Law

(b) Hooke's Law

(c) Gas Law

(d) Boyle's Law

5. Kinetic energy is equal to

(a) mgh

(b) ma

(c) $\frac{1}{2}mv^2$

(d) none of the above

6. The unit of energy

(a) Meter

(b) Joules

(c) Watt

(d) Newton

7. Impurities ... the boiling point of water.

(a) Lowers

(b) raise

(c) Both a and b

(d) none of the above

8. Which of the following is not a renewable energy source?

(a) Tidal

(b) Biomass

(c) Wind energy

(d) Coal