

SECTION-A

Note:

- 1) Attempting all MCQs is compulsory. This paper along with the OMR sheet must be returned to the superintendent after due time.
- 2) Fill the circle (A)(B)(C)(D), which one is correct with blue or black ball point in separate OMR Sheet like
- 3) If more than one circle in the OMR sheet is filled then no credit will be given to such answer.

I.i. The value we get after rounding 1.47 is.

- A 1.5 B 1.4 C 1.47 D 1.46

ii. The slope of distance time curve only gives.

- A Acceleration B Speed C Displacement D Retardation

iii. The value of $g = 9.8 \text{ms}^{-2}$ can be expressed in fts^{-2} as.

- A 3.22fts^{-2} B 322fts^{-2} C 0.322fts^{-2} D 32.2fts^{-2}

iv. The mass of a body of weight 9.8N on the surface of earth will be.

- A 9.8 Kg B 0 Kg C 1Kg D 98Kg

v. How many times the centripetal force will increase if the mass of a body moving with uniform speed in a circle is doubled?

- A Six times B Two times C Four times D Eight times

vi. S.I unit of torque is.

- A Nm B Nm^{-1} C Nm^2 D Nm^{-2}

vii. A body in equilibrium must not be.

- A At rest B Moving C Rotating D Accelerating

viii. The magnitude of g on the moon's surface is about _____ of the value of g on the surface of Earth.

- A $1/2$ B $1/4$ C $1/6$ D $1/8$

ix. If the mass of a body becomes half and velocity becomes double the K.E will increase by a factor of.

- A 2 B 3 C 4 D Will remains same

x. KWh is unit for.

- A Energy B Power C Efficiency D Pressure

xi. A rock weighs 25.7N in air and 21.2N in water. What is the buoyant force of the water.

- A 4.1N B 1.9N C 1.18N D 0.84N

xii. Absolute zero temperature on Celsius scale is.

- A 273°C B 100°C C 0°C D -273°C