

MARKS: 15**SCIENCE OBJECTIVES TEST****IX STD****Chapter: Work and energy****Duration: 45 minutes****Q.1. Choose the correct option**

- The SI unit of work is
(a) joule (b) newton (c) meter (d) none of the above
- Which symbol is used to represent the SI unit of force?
(a) J (b) N (c) m (d) None of the above
- Which of the following formula is used to calculate work done?
(a) Work done = Force x Displacement (b) Work done = Force/Displacement
(c) Work done = Force – Displacement (d) None of the above
- One joule is equal to
(a) 2 Nm (b) 1.5 Nm (c) 1 Nm (d) None of the above
- The work is said to be done under which of the following condition:
(a) Force should act on the object (b) Object must be displaced
(c) Both a and b (d) None of the above

Q.2. Fill in the blanks

- The SI unit of displacement is _____
- The sum of the potential and kinetic energy of a body is known as its _____

Q.3. State True or False

1. The greater the speed of motion of an object, the lesser is its kinetic energy.
2. If force is zero, then work done is also zero.
3. A body can have both potential and kinetic energy at the same time.
4. The SI unit of work is ohm.

Q.4. Name the following

1. The SI unit of energy is
2. A British physicist after which the unit of energy is named
3. A formula used to calculate potential energy

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