

SINGLE CORRECT ANSWER TYPE

SCALAR QUANTITIES, VECTOR QUANTITIES, DISTANCE AND DISPLACEMENT, TYPES OF SPEED, VELOCITY, TYPES OF VELOCITY, ACCELERATION AND RETARDATION, TYPES OF ACCELERATION:

01. A physical quantity which has only magnitude
a) vector b) scalar c) tensor d) none of these
02. A physical quantity which has both magnitude and direction
a) vector b) scalar c) tensor d) none of these
03. The following is a scalar
a) force b) momentum c) work d) velocity
04. The following is a vector
a) work b) current c) power d) force
05. Find the odd one:
a) linear momentum b) moment of force c) current d) torque
06. The total length covered by a body is called
a) speed b) distance c) displacement d) velocity
07. Distance is a _____ quantity.
a) scalar b) vector c) tensor d) none of these
08. The change in position of a body in a specified direction is
a) acceleration b) distance c) displacement d) speed
09. Displacement is a _____ quantity.
a) scalar b) vector c) tensor d) none of these
10. The units of displacement
a) metre b) centimetre c) both (a) & (b) d) kg
11. Numerically distance and displacement are related as
a) distance = displacement b) distance \geq displacement
c) distance \leq displacement d) distance $>$ displacement
12. The distance travelled in unit time is called
a) displacement b) velocity c) acceleration d) speed
13. The S.I. unit of speed is
a) m b) ms^{-1} c) ms^{-2} d) s
14. The dimensional formula of velocity is
a) $[\text{LT}^{-1}]$ b) $[\text{LT}^{-2}]$ c) $[\text{LT}]$ d) $[\text{L}^{-1}\text{T}^{-1}]$
15. The speed of a vehicle at an instant of time is called
a) uniform speed b) average speed
c) instantaneous speed d) variable speed
16. Displacement/time is equal to
a) speed b) velocity c) average d) acceleration
17. The product of velocity and time is
a) acceleration b) distance c) displacement d) velocity
18. The C.G.S. units of velocity are
a) ms^{-1} b) ms^{-2} c) cms^{-1} d) cms^{-2}