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) $[LT^{-1}]$ b) $[LT^{-2}]$ c) $[LT]$ d) $[L^{-1}T^{-1}]$

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}