

2

UNIT

FORCE AND MOTION

SUBJECTIVE QUESTIONS AND ANSWERS

Q.1. What are scalar and vector quantities ? Give graphical representation of a vector.

Ans. Scalar Quantities : Those physical quantities which have magnitude only but have no direction are called the scalar quantities or scalars. For example, length, mass, time, work, power etc.

Vector Quantities : Those physical quantities which are having magnitudes as well as directions both, are called vector quantities or vectors. For example, displacement, force, velocity, acceleration, torque etc.

Graphical Representation of Vector : Graphically, a vector is represented by an arrow drawn to a chosen scale, parallel to the direction of the vector. The length and the direction of the arrow thus represent the magnitude and the direction of the vector respectively. Thus, the arrow in fig.2.1 represent a vector \vec{A} in XY-plane making an angle θ with X-axis.

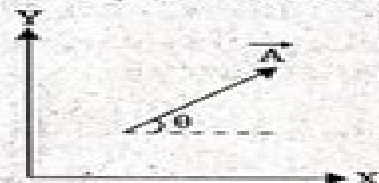


Fig. 2.1

Q.2. Write the difference between scalar and vector quantities.

Ans. The main differences between scalar and vector quantities are as follows :

S.No.	Domain	Scalar Quantity	Vector Quantity
(i)	Definition	A physical quantity which has only magnitude is known as scalar quantity.	A physical quantity which has magnitude as well as direction is known as vector quantity.
(ii)	Division	A scalar can divide another scalar.	Two vectors can never divide each other.
(iii)	Algebraic rule	Scalars obey algebraic rules for the operations like addition and multiplication.	Vectors obey vector algebra for the operations like addition and multiplication.
(iv)	Example	For example, mass, length, time, work etc.	For example, velocity, displacement, acceleration etc.

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A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

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