Multiple Choice Questions

4.1 Encircle the correct answer from the given choices

i. Two equal but unlike parallel forces having different line of action produce.

A.a torque B.a couple
C.equilibrium D.neutral equilibrium

ii. The number of forces that can be added by head to tail rule are:

A.2 B. 3
C.4 D.any number

iii. The number of perpendicular components of a force are:

A.1 B.2
C.3 D.4

iv. A force of 10 N is making an angle of 30° with the horizontal. Its horizontal component will be:

A.4 N B.5 N
C.7 N D.8.7 N

v. A couple is formed by:

A.two forces perpendicular to each other
B.two like parallel forces
C.two equal and opposite forces in the same line
D.two equal and opposite forces not in the same line

vi. A body is in equilibrium when its:

A. acceleration is uniform
B. speed is uniform
C. speed and acceleration are uniform
D. acceleration is zero

vii. A body is in neutral equilibrium when its centre of gravity:

A.is at its highest position
B.is at its lowest position
C.keeps its height if displaced
D.is situated at its bottom

viii. Racing cars are made stable by:

A.increasing their speed
B.decreasing their mass
C.Decreasing their width
D.lowering their centre of gravity

Answers

i-B	ii.D	iii.B	iv.D
v. D	vi. D	vii.C	viii.C

ClassNotes