

ENGINEERING MECHANICS

VIVA QUESTIONS

Q. 1) what is Mechanics?

ANS: It is defined as branch of physical science which is concerned with the study of various forces acting on a body when body is in state of rest or in motion.

Mechanics is sub divided into three branches: Mechanics of rigid bodies, Mechanics of deformable bodies and Mechanics of Fluids.

In Our course E. M. is restricted to study of mechanics of rigid body only

Q. 2) which are different types of Mechanics?



STATICS: It is branch of E. M. which deals with various forces acting on a body at rest.

DYNAMICS: It is branch of E. M. which deals with study of motion.

KINEMATICS: It is study of motion of a body without consideration of forces which cause motion. It analyses geometry of motion.

KINETICS: Which relates forces acting on the body to motion of body.

Q. 3) **RIGID BODY:** On the application of force body does not change its size and shape

Q. 4) **Particle:** Considerable mass but Negligible Dimension

Q. 5) Newton's First Law of Motion: Every Body continues in its state of rest or in uniform motion in a straight line unless it is acted upon by an unbalanced force.

Q. 6) Newton's Second Law of Motion: The rate of change of momentum is directly proportional to the impressed force and takes place in the direction of Force.

Q. 7) Newton's Third Law of Motion: For every action there is equal and opposite reaction.

Q. 8) **FORCE:** force is defined as an agency which tends to change the state of rest or of uniform motion of a Body. Force is a Vector Quantity.

Q. 9) Characteristics of a Force?

ANS: 1) Magnitude

2) Direction

3) Point Of Application

4) Line of Action: Line along which force acts.

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SJ Ball



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Enjoying the Track of Expression: An Psychological Symphony within **Viva Questions And Answer From Thermal Engineering In**

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