

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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The Top Books of the Year Viva Questions And Answer From Thermal Engineering In The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Viva Questions And Answer From Thermal Engineering In : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Viva Questions And Answer From Thermal Engineering In : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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