

8. Write short notes (any five):
 (a) Condensation number, (b) Different types of sensing elements, (c) Regression analysis, (d) Laser beam welding, (e) Technology management, (f) Tool geometry, (g) Universal chuk, (h) Shear angle.
9. (a) Discuss the concept and nature of personnel management. How does personnel management contribute to the optimum utilization of human resources of an organisation? 7
 (b) What is span of control? Suggest the form of organisation for a construction project with explanation. 7
 (c) Explain research cost and research risk. Is research a cost or an investment in an organisation? Give reasons in favour of your opinion. 6
10. (a) What is centrifugal casting? Describe the main features and advantages of centrifugal casting. 5
 (b) Mention the common drilling operations in manufacturing process. Describe and designate the principle units of vertical drill press. 5
 (c) How are shaping and planning alike? Write the advantages and disadvantages of shaping and planning as compared to other operations. 5
 (d) Briefly describe the working principle of resistance welding. 5
11. (a) What are the causes and effects of vibration? 4
 (b) Explain why only a part of unbalanced force due to reciprocating masses is balanced by removing mass. 10
 (c) Write short notes on primary and secondary balancing. 6
12. (a) Explain briefly accuracy and precision. What are the requirements of accurate measuring instruments? 6
 (b) Describe non-destructive testing (NDT). Compare NDT with conventional techniques. 7
 (c) Why is surface finish very important in engineering applications? Describe two methods of testing flatness of surface mentioning the advantages and limitations. 7
13. (a) Draw the P-V and T-S diagrams of an air standard diesel cycle and explain. Also discuss the deviations of actual cycle compared with air standard cycle. 8
 (b) A diesel engine has a compression ratio of 20 and cut-off takes place at 5% of the stroke. Find the air-standard efficiency. 6
 (c) What is 'compression ratio' in IC engine? Calculate the clearance volume in percent of displacement for air standard Otto cycle having an efficiency of 50%. 6
14. (a) With necessary diagrams deduce the working principle of regenerative gas turbine and explain the effectiveness of regenerator for an ideal regenerative Bryton cycle. 6
 (b) What is staging in steam turbine and why is it done? Explain different types of staging with necessary diagrams. 4
 (c) Briefly explain an ideal reheat Rankine cycle with block diagram and corresponding T-S plane. 4
 (d) A synchronous generator is to supply power at 50Hz. If a turbine rotating at a speed of 300rpm is to rotate generator at 750rpm through a gearbox, determine the gear ratio and number of poles of the generator. 6

Mechanical Engineering Written Test Questions And Answers

YCT Expert Team



Mechanical Engineering Written Test Questions And Answers:

Mechanical Engineering Written Test Questions And Answers: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Mechanical Engineering Written Test Questions And Answers : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing 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, captivating readers with its evocative prose and mesmerizing setting. These bestselling 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 gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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