ENGINEERING SCIENCE - CBA LEVEL II DECEMBER, 2020
Attempt any FIVE (5) questions out of SEVEN (7) questions.

1. (a) State the 'Principle of Moments'.
(b) Describe two (2) conditions for a body to be at the state of equilibrium.
(c) A uniform wooden beam, 4.8m long is supported at its left-hand end and also at 3.2m from the left hand end. If the weight of the beam is 200N, determine the reactions at the supports.

2. (a) Define the following:
(i) Radian
(ii) Velocity
(b) Convert the following units as per instructions given:
(i) 36km/h into m/s
(ii) 2400rev/min into rad/s
(c) Derive the equation which shows the relationship between linear velocity, V and angular velocity, ω.
(d) A wheel of diameter 540mm is rotating at 480rev/min, calculate the linear velocity of the point on the rim of the wheel.

3. (a) Define the following terms:
(i) Mechanical advantage
(ii) Efficiency of a machine
(b) Explain why the efficiency of a practical machine does not reach 100%.
(c) Draw a block and tackle system of pulleys with velocity ratio of 6.
(d) When an effort of 400N is applied, the above pulley system can raise the load of 1500N, determine its;
(i) Mechanical advantage
(ii) Efficiency.

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Table of Contents Engineering Science Past Papers

1. Understanding the eBook Engineering Science Past Papers
    - The Rise of Digital Reading Engineering Science Past Papers
    - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Science Past Papers
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Engineering Science Past Papers
    - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Science Past Papers
    - Personalized Recommendations
    - Engineering Science Past Papers User Reviews and Ratings
    - Engineering Science Past Papers and Bestseller Lists
5. Accessing Engineering Science Past Papers Free and Paid eBooks
    - Engineering Science Past Papers Public Domain eBooks
    - Engineering Science Past Papers eBook Subscription Services
    - Engineering Science Past Papers Budget-Friendly Options

6. Navigating Engineering Science Past Papers eBook Formats
    - ePub, PDF, MOBI, and More
    - Engineering Science Past Papers Compatibility with Devices
    - Engineering Science Past Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Engineering Science Past Papers
    - Highlighting and Note-Taking Engineering Science Past Papers
    - Interactive Elements Engineering Science Past Papers
8. Staying Engaged with Engineering Science Past Papers
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Engineering Science Past Papers
9. Balancing eBooks and Physical Books Engineering Science Past Papers
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Engineering Science Past Papers
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Engineering Science Past Papers
    - Setting Reading Goals Engineering Science Past Papers
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Engineering Science Past Papers
    - Fact-Checking eBook Content of Engineering Science Past Papers
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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