

Model Question Paper (CBCS) scheme

15ME744

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Seventh Semester B.E. Degree (CBCS) Examination Dec - 2018/ Jan 2019

Design for Manufacturing

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing one full question from each module.

MODULE – I

- 1 a Explain briefly the guidelines for design for manufacturability. (10Marks)
b List some of the important properties of materials to be considered in the design process. (06Marks)

OR

- 2 a The material of a solid cylindrical tie rod of cross-sectional area "A" and length "L" is to be selected for carrying a tensile load "P" with factor of safety "S". Explain the process of material selection as per the cost per unit property method. (10Marks)
b Explain the effect of manufacturing processes on design. (06 Marks)

MODULE – II

- 3 a Explain with sketch selective assembly of model-I. (08Marks)
b With a neat sketch, explain the "projected tolerance zone". (08 Marks)

OR

- 4 a What are laminated shims? Explain with sketch, state materials used for shims. (08Marks)
b Explain virtual size concept and the advantages of true position tolerancing. (08 Marks)

MODULE – III

- 5 a Change the datum for the drawing of a pin from axis of hole to end face (see Fig. Q5 (a)). (10Marks)



Fig. Q5(a)

- b Explain "milling cutters" with sketches. (06Marks)
- 6 a Write short notes on simplification by separation and simplification by amalgamation. (10 Marks)
b Explain functional datum and manufacturing datum with an example. (06 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written e.g. Me2/a 4), will be treated as malpractice.

Mechanical Engineering 3rd Sem Question Papers

K Morrison



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Table of Contents Mechanical Engineering 3rd Sem Question Papers

1. Understanding the eBook Mechanical Engineering 3rd Sem Question Papers
 - The Rise of Digital Reading Mechanical Engineering 3rd Sem Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Engineering 3rd Sem Question 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 Mechanical Engineering 3rd Sem Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Engineering 3rd Sem Question Papers
 - Personalized Recommendations
 - Mechanical Engineering 3rd Sem Question Papers User Reviews and Ratings
 - Mechanical Engineering 3rd Sem Question Papers and Bestseller Lists

5. Accessing Mechanical Engineering 3rd Sem Question Papers Free and Paid eBooks
 - Mechanical Engineering 3rd Sem Question Papers Public Domain eBooks
 - Mechanical Engineering 3rd Sem Question Papers eBook Subscription Services
 - Mechanical Engineering 3rd Sem Question Papers Budget-Friendly Options
6. Navigating Mechanical Engineering 3rd Sem Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanical Engineering 3rd Sem Question Papers Compatibility with Devices
 - Mechanical Engineering 3rd Sem Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanical Engineering 3rd Sem Question Papers
 - Highlighting and Note-Taking Mechanical Engineering 3rd Sem Question Papers
 - Interactive Elements Mechanical Engineering 3rd Sem Question Papers
8. Staying Engaged with Mechanical Engineering 3rd Sem Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanical Engineering 3rd Sem Question Papers
9. Balancing eBooks and Physical Books Mechanical Engineering 3rd Sem Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanical Engineering 3rd Sem Question Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mechanical Engineering 3rd Sem Question Papers
 - Setting Reading Goals Mechanical Engineering 3rd Sem Question Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mechanical Engineering 3rd Sem Question Papers
 - Fact-Checking eBook Content of Mechanical Engineering 3rd Sem Question 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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