

## ONGC Exam Paper-2010 for Mechanical Engineer

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-----**Year 2010-ONGC Exam Paper-2010 for Mechanical Engineer**-----

1 During the execution of a CNC part program block NO20 GO2 X45.0 Y25.0 R5.0 the type of tool motion will be

- A) circular Interpolation — clockwise
- B) circular Interpolation — counterclockwise
- C) linear interpolation
- D) rapid feed

Answer : (A)

2 A component can be produced by any of the four processes I, II, III and IV. Process I has a fixed cost of Rs. 20 and variable cost of Rs. 3 per piece. Process II has a fixed cost Rs. 50 and variable cost of Re. 1 per piece. Process III has a fixed cost of Rs. 40 and variable cost of Rs. 2 per piece. Process IV has a fixed cost of Rs. 10 and variable cost of Rs. 4 per piece. If the company wishes to produce 100 pieces of the component, from economic point of view it should choose

- A) Process I
- B) Process II
- C) Process III
- D) Process IV

Answer : (B)

3 In an interchangeable assembly, shafts of size  $25.000+0.040\text{mm}$  mate with holes of size  $25.000+0.020\text{mm}$ . The maximum possible clearance in the assembly will be

- A) 10 microns
- B) 20 microns
- C) 30 microns
- D) 60 microns

Answer : (D)

4 A company has two factories S1, S2 and two warehouses D1, D2. The supplies from S1 and S2 are 50 and 40 units respectively. Warehouse D1 requires a minimum of 20 units and a maximum of 40 units. Warehouse D2 requires a minimum of 20 units and, over and above, it can take as much as can be supplied. A balanced transportation problem is to be formulated for the above situation. The number of supply points, the number of demand points, and the total supply (or total demand) in the balanced transportation problem respectively are

- A) 2, 4, 90
- B) 2, 4, 110
- C) 3, 4, 90
- D) 3, 4, 110

Answer : (C)

5 An incompressible fluid (kinematic viscosity,  $7.4 \times 10^{-7} \text{ m}^2/\text{s}$ , specific gravity, 0.88) is held between two parallel plates. If the top plate is moved with a velocity of 0.5 m/s while the bottom one is held stationary, the

# Mechanical Engineering Test Papers

**Daniela Niemeyer**



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### **Table of Contents Mechanical Engineering Test Papers**

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

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