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# Question Paper Code: 50887

R.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.

Fifth/Sixth Semester

Mechanical Engineering

#### ME 8694 - HYDRAULICS AND PNEUMATICS

(Common to Manufacturing Engineering/Mechanical Engineering (Sandwich)/Robotics and Automation)

(Regulations 2017)

Time: Three hours

Maximum: 100 marks

#### Answer ALL questions.

#### PART A - (10 × 2 = 20 marks)

- 1. Name any four hydraulic fluids that are commonly used in fluid power system.
- 2. What is known as pump cavitation?
- 3. Draw the symbols for the following elements
  - (a) 4/3 Tandem center valve
  - (b) Hydraulic motor
- 4. Why is end cushioning provided in hydraulic cylinder operation?
- 5. State the function of pressure intensifier.
- Write the purpose of using a fail safe circuit in any hydraulic system.
- 7. What is a Ladder diagram?
- 8. Discuss the working and function of FRL unit in Pneumatic system.
- 9. List any two common faults in an hydraulic system.
- 10. Mention the need for low cost automation with an example.

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**Rachel S Tattersall** 

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## **Table of Contents Hp Question Paper**

- 1. Understanding the eBook Hp Question Paper
  - The Rise of Digital Reading Hp Question Paper
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Hp Question Paper
  - 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 Hp Question Paper
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Hp Question Paper
  - Personalized Recommendations
  - Hp Question Paper User Reviews and Ratings
  - Hp Question Paper and Bestseller Lists
- 5. Accessing Hp Question Paper Free and Paid eBooks

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