

MEC402 :: INDUSTRIAL AUTOMATION AND ROBOTICS

Max.Marks: 50

Time Allowed: 01:30 hrs

1. This paper contains 4 questions divided in two parts.
2. All questions are compulsory.
3. The marks assigned to each question are shown at the end of each question in square brackets.
4. Attempt either (a) OR (b) from each question of Part B.
5. Answer all questions in serial order.
6. Do not write anything on the question paper except your registration number at the designated space.

PART A

- Q1 (a) Where are the ports of a pressure relief valve connected? [2.5 Marks]
- (b) How many positions does a spring centered valve have? [2.5 Marks]

PART B

Q2 (a) Draw a circuit diagram for a special punching operation using double acting cylinder as ram, which starts punching operation when safety cover is secured and operator pushes the button. Cylinder extends fast and punch a hole and returns back slowly to its initial position. [15 Marks]

OR

- (b) What is a fail safe circuit? Explain with the help of circuit diagram. [15 Marks]

Q3 (a) Explain the basic hydraulic system with neat and clean diagram. [15 Marks]

OR

- (b) What are the advantages and disadvantages of hydraulic systems. [15 Marks]

Q4 (a) Explain how we designate a DC valve with a suitable example. Explain working of a 3/2 direction control valve in hydraulic system with the help of circuit. [15 Marks]

OR

- (b) What do you understand by pneumatic logic valves and check valves? Discuss in detail.

[15 Marks]

Industrial Robotics Question Paper

Daniel F McAuley



Industrial Robotics Question Paper:

This book delves into Industrial Robotics Question Paper. Industrial Robotics Question Paper is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Industrial Robotics Question Paper, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Industrial Robotics Question Paper
 - Chapter 2: Essential Elements of Industrial Robotics Question Paper
 - Chapter 3: Industrial Robotics Question Paper in Everyday Life
 - Chapter 4: Industrial Robotics Question Paper in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Industrial Robotics Question Paper. This chapter will explore what Industrial Robotics Question Paper is, why Industrial Robotics Question Paper is vital, and how to effectively learn about Industrial Robotics Question Paper.
 3. In chapter 2, the author will delve into the foundational concepts of Industrial Robotics Question Paper. The second chapter will elucidate the essential principles that must be understood to grasp Industrial Robotics Question Paper in its entirety.
 4. In chapter 3, the author will examine the practical applications of Industrial Robotics Question Paper in daily life. This chapter will showcase real-world examples of how Industrial Robotics Question Paper can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Industrial Robotics Question Paper in specific contexts. This chapter will explore how Industrial Robotics Question Paper is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Industrial Robotics Question Paper. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Industrial Robotics Question Paper.

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