

# ROBOTICS AND AUTOMATION

## UNIT 1 – BASIC CONCEPTS PART – A

### 1. Define a Robot? (Apr 2014)

RIA defines a robot as a “programmable, multifunction manipulator designed to Move materials, parts, tools or special devices through variable programmed motions for the performance of the variety of task”.

### 2. What is meant by automation and what are its types?

Automation is a technology that is concerned with the use of electronic mechanical and computer based system in the operation control and production.

Various types of automation:

- Fixed automation
- Programmable automation
- Flexible automation

### 3. Why a robot used?

- a. To reduce production cost
  - Fast
  - Accurate
  - Difficulties in human nature
- b. To avoid 3-D jobs
  - Dirty
  - Dangerous
  - Difficult

### 4. What is meant by robot anatomy?(Nov 2013)

Robot anatomy means study of structure of robot. Manipulator is constructed of a series of joints & links. A joint provides relative motion between the input link and the output link. Each joint provides the robot with one degree of freedom.

### 5. Write are the Benefits of industrial automation? (Apr 2014)

- Improved product quality
- Improved safety
- Increased manufacturing flexibility
- Improved operation reliability
- Improved decision making

### 6. Write Asimov's laws of robotics?(Nov 2013)

Three rules written by science fiction author Isaac Asimov and later expanded upon. These rules are built in to almost all positronic robots appearing in his fiction and cannot be bypassed. The rules are introduced in his 1942 short story Runaround although they were foreshadowed in a few earlier stories.

The Three Laws of Robotics are as follows:

- I. A robot may not injure a human being or, through inaction, allow a human being to come to harm.
- II. A robot must obey any orders given to it by human beings, except where such orders would conflict with the First Law.
- III. A robot must protect its own existence as long as such protection does not conflict with the First or Second Law.

### 7. Classify the motion control of Robot arm?

- Limited sequence control
- Point to point control
- Continuous path control
- Intelligent control

# Objective Question Bank Automation And Industrial Robotics

**Jicheng Xie**



## **Objective Question Bank Automation And Industrial Robotics:**

Grade Booster Question Bank ICSE Multiple Choice Questions class 10 Chetan Sandhu, 2025-09-22 The Grade Booster ICSE Multiple Choice Questions for Class 10 is an extensive practice companion designed to help students master the MCQ pattern of the ICSE exams It provides chapter wise multiple choice questions across all major subjects each with clear explanations and accurate solutions The book highlights important concepts common error alerts and tips to improve speed and accuracy With its structured approach students can self assess their preparedness identify weak areas and reinforce learning through consistent practice Ideal for revision before exams this resource ensures familiarity with the question patterns and builds the confidence needed to score higher marks in ICSE Class 10 examinations **GATE Question Bank - Production & Industrial Engineering** Mocktime Publication, 2400 MCQs GATE Production Industrial Engineering Chapterwise Question Bank Based on New Syllabus **Certified Management Accountant (CMA) Part 1 Test Bank Questions 2022** MUHAMMAD ZAIN, 2021-12-06 CMA Part 1 Test Bank Questions 2022 contains the 2 000 multiple choice questions explaining the correct and incorrect choices to help you prepare for CMA exams conducted by the Institute of Management Accountants IMA US CMA Part 1 is known as Financial Planning Performance and Analytics and this CMA Exam Prep material is designed for those working executives committed to earning CMA credentials within six months CMA Exams are passed by understanding the core topics presented in the syllabus and the ability to apply them in real case scenarios You will be tested at higher cognitive levels CMA Part 1 exam is harder as compared to CMA Part 2 That s why this CMA Part 1 Test Bank Questions 2022 will help you in your certification journey The beauty of these CMA Part 1 Exam Questions 2022 is that questions are presented on a separate page and explanation to the correct and incorrect choices on another page so that the mind is focused only on the requirements of the question which replicates the exam environment Furthermore an urge will be created in the heart to select the correct choice before jumping on the solution to the problem CMA certification can easily be achieved within six months if you can give at least three hours on weekdays and at least 6 hours on weekends The exam is of continuous four hours requiring you to solve 100 MCQs in three hours and 2 essay questions in the last one hour It is offered in English Language only A dedicated section on Certified Management Accountant CMA Basic Information is added in the CMA Part 1 Practice Questions 2022 which explains the proven strategies to clear the CMA exam in the first attempt CMA Part 1 Financial Planning Performance and Analytics lecture videos will be available from YouTube which will give you the confidence to retain the topics in the heart Do read the comments and ratings of my successful candidates from Facebook This CMA Part 1 Questions and Answers 2022 is ideal for all persons working in financial and management reporting positions It is also equally good for those candidates who wish to learn the concepts and principles of Financial and Cost Management Zain Academy s purpose is to create the best CMA exam preparation materials at affordable pricing You will get the integrated printable PDF book on subscription It is optimized for all the screen sizes

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Mathematics, History & Civics, Geography and Hindi Class 10 Panel of Authors, This book includes the Chapterwise MCQs Question Bank of ICSE English I English II Physics Chemistry Biology Mathematics History Civics Geography and Hindi Class 10 This book is beneficial for first term *Advances in Service and Industrial Robotics* Karsten Berns, Daniel

Görgeş, 2019-05-07 This book presents the proceedings of the 28th International Conference on Robotics in Alpe Adria Danube Region RAAD 2019 held at the Fraunhofer Zentrum and the Technische Universität in Kaiserslautern Germany on 19 21 June 2019 The conference brought together academic researchers in robotics from 20 countries mainly affiliated to the Alpe Adria Danube Region and covered all major areas of robotic research development and innovation as well as new applications and current trends Offering a comprehensive overview of the ongoing research in the field of robotics the book is a source of information and inspiration for researchers wanting to improve their work and gather new ideas for future developments It also provides researchers with an innovative and up to date perspective on the state of the art in this area

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*Advances in Manufacturing Technology XXXIII* Mark Price, 2019-08-15 The development and management of technologies and operations are key to the success of all types of manufacturing business This book presents the proceedings of the 17th International Conference on Manufacturing Research ICMR 2019 held in Belfast UK on 10-12 September 2019 ICMR has been the UK's main manufacturing research conference for 34 years and an international conference since 2003 It brings together researchers academics and industrialists to share their vision knowledge and experience and discuss emerging trends and new challenges in manufacturing research The conference theme of ICMR2019 was smart manufacturing and the book includes the 82 papers presented at the conference representing an acceptance rate of 69% These have been divided into 13 parts which cover topics ranging from robot automation and machining processes additive manufacturing composite manufacturing design methods to information management quality control production optimization and product lifecycle management Providing an overview of current trends and developments the book will be of interest to researchers and engineers in the relevant area of manufacturing processes design and production management *Proceedings of the 2nd Conference on Industrial Robot Technology, University of Birmingham, U. K., March 27th-29th, 1974 ; Edited by T. E. Brock and Wendy A. Thornton* University of Nottingham. Department of Production Engineering and Production Management, 1974

*Mechatronics '98* J. Adolfsson, J. Karlsén, 1998-08-28 Mechatronics a synergistic combination of mechanical electronic and computing engineering technologies is a truly multidisciplinary approach to engineering New products based on mechatronic principles are demonstrating reduced mechanical complexity increased performance and often previously impossible capabilities This book contains the papers presented at the UK Mechatronics Forum's 6th International Conference held in Skövde Sweden in September 1998 Many of these high quality papers illustrate the tremendous influence of mechatronics on such areas as manufacturing machinery automotive engineering textiles manufacture robotics and real time control and vision systems There are also papers describing developments in sensors actuators control and data processing techniques such as fuzzy logic and neural networks all of which have practical application to mechatronic systems **Multi-Agent Systems** Vadim Malvone, Aniello Murano, 2023-09-06 This volume LNCS 14282 constitutes the refereed proceedings of the 20th European Conference EUMAS 2023 held in Naples Italy during September 2023 This volume includes 24 full papers and 5 short papers carefully selected from 47 submissions Additionally the volume features 16 short papers rigorously reviewed

from 20 submissions for the PhD day The conference focused on the theory and practice of autonomous agents and multi agent systems covering a wide range of topics *Robotics and Automation '84* International Association of Science and Technology for Development,1984 Realising CIM's Industrial Potential C. Kooij,P. MacConaill,J. Bastos,1993 The CIM Europe provides a focal point for reporting on progress in Computer Integrated Manufacturing CIM CIM practitioners decision makers and researchers exchange experiences gained in developing and implementing CIM technologies This work deals with the application of technology innovation to industrial demand **Continual Improvement: A Bibliography with Indexes, 1992-1993** ,1994 **Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management. Human Body Modeling and Ergonomics** Vincent G. Duffy,2013-06-28 This two volume set LNCS 8025 8026 constitutes the refereed proceedings of the Fourth International Conference on Digital Human Modeling and Applications in Health Safety Ergonomics and Risk Management formerly International Conference on Digital Human Modeling DHM 2013 held as part of the 15th International Conference on Human Computer Interaction HCII 2013 held in Las Vegas USA in July 2013 jointly with 12 other thematically similar conferences The total of 1666 papers and 303 posters presented at the HCII 2013 conferences was carefully reviewed and selected from 5210 submissions These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems The papers accepted for presentation thoroughly cover the entire field of Human Computer Interaction addressing major advances in knowledge and effective use of computers in a variety of application areas This two volume set contains 91 papers The papers in this volume focus on the following topics digital human modeling and ergonomics in working environments ergonomics of work with computers anthropometry posture and motion modeling 2nd Conference on Industrial Robot Technology T. E. Brock,Wendy A. Thornton,1974 *Resources in Education* ,1995-07 **Advancing Learning Factories: Enabling Future-Ready Skills** Louis Louw,Vera Hummel,Imke de Kock,Konrad von Leipzig,2025-09-30 Industrial companies aim to offer unique products and service bundles to their customers At the same time they must shape their value adding processes to address current challenges such as digitalization intelligent systems resilience human centredness and sustainability Managing these necessary transition processes relies heavily on staff competency Ultimately well prepared students qualified engineers and workers must plan and implement the required steps Qualification processes must be oriented towards these practical requirements Thus appropriate learning systems for developing the competencies needed to set up and operate new production processes are crucial for the factory of the future Learning factories are recognized as a promising path to meet these future needs They provide an interactive learning environment where pilot or real scale processes and technologies are in place allowing direct access to the product creation process product development manufacturing quality management logistics Learning factories are based on a didactical concept that emphasizes experimental and problem based learning The continuous improvement philosophy is facilitated by

the participants own actions and interactive involvement Through the learning factory various stakeholders can grasp the complex technical and organizational interrelationships of today s industrial environment and acquire the competencies to systematically improve it The Conference on Learning Factories CLF provides a regular platform for academic educational and industrial stakeholders to exchange the latest knowledge and developments in this domain The Conference on Learning Factories CLF is the annual conference of the International Association of Learning Factories IALF attracting top academics and researchers in the field of learning factories to meet engage and share their R D findings The goal of the CLF is to promote cooperation among members to achieve excellence in teaching and research in the field of learning factories Each year the conference attracts about 130 participants worldwide The 15th Conference on Learning Factories CLF was hosted by the Department of Industrial Engineering at Stellenbosch University in the beautiful town of Stellenbosch South Africa The conference covered the following main topics technology implementation and evaluation related to learning factories learning and didactic processes and evaluation related to learning factories learning factory business models and cooperation industry and academic learning factory concepts and infrastructure and learning factories for sustainability and resilience

**Industrial Robot Handbook** Richard K. Miller, 2013-11-21 These are exciting times for manufacturing engineers It has been said that American industry will undergo greater changes during the 1980 and 1990 decades than it did during the entire eight preceding decades of this century The industrial robot has become the symbol of this progress in computer integrated manufacturing This book is for engineers and managers in manufacturing industries who are involved in implementing robotics in their operations With tens of thousands of industrial robots already in use in the United States there are plenty of role models for proposed applications to be patterned after This book provides an overview of robot applications and presents case histories that might suggest applications to engineers and managers for implementation in their own facilities The application of industrial robots were well developed in the late 1970s and early 1980s While the reader may note some of the examples discussed in this handbook incorporate older robot models it is the application that is of interest As Joseph Engelberger the founding father of robotics has pointed out industrial robots in 1988 are doing pretty much the same kind of work as they did in 1980

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