

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

TD Snyder



Objective Question Bank Automation And Industrial Robotics:

The Top Books of the Year Objective Question Bank Automation And Industrial Robotics The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have enthralled audiences this year.

Objective Question Bank Automation And Industrial Robotics : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed.

Objective Question Bank Automation And Industrial Robotics : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Objective Question Bank Automation And Industrial Robotics : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

<https://crm.avenza.com/book/detail/default.aspx/rca%20lyra%20instruction%20manual.pdf>

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