

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

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