Ch-7
Understanding Robotics

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Q.1 Define robotics.

Ans. Robotics is the branch of study that deals with designing construction and development of robots. Robotics combines the application of electronic engineering mechanical engineering information engineering and computer science.

Q.2 What are some common characteristics of robots?

Ans. A robot is an automated device that functions much like humans. Robots are multi-tasking manipulators that may be designed to move objects like material, parts, tools and specialised equipment from one location to another.

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Q.3 How are robots more advantageous than human beings?

Ans 1. Robots can work continuously without getting fired or taking breaks.
2. They perform repetitive tasks faster and more accurately, increasing productivity.
3. They reduce human errors and produce better-quality products.

Q.4 Which are the avenues in which human beings are better than robots?

Ans 1. Robots depend on humans for programming and instructions.
2. Human beings have emotions and empathy, whereas robots cannot interact like humans.
3. Humans can handle situations that require emotions, judgement and decision-making.

Q.5 What is the present and future status of robots?

Ans. Robots are becoming more efficient, flexible and autonomous with the help of AI, Machine Learning and sensory technologies.

2. They are widely used in households, hospitals, industries, airports, banks and hotels.

3. Robots are expected to play an increasingly important role in the future.

Competency-Based Questions.

Q.1 Name this humanoid.

Ans. Rashmi

Q.2 Name the country in which this humanoid has been developed.

Ans. India

Q.3 Which native
humanoid
Ans. Hindi, Bho

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Q.3 Which native languages can this humanoid speak?
Ans. Hindi, Bhojpuri, Marathi

Q.4 Write any two abilities of this humanoid.
Ans It understands the user's language and responds accordingly. It can also recognize facial expressions and understand the user's mood.