

CLASS -7 (AI)
Topic to be covered in October 2025

Artificial Intelligence: Exploring Innovations and Societal Sustainability

Q1: What meaning of Artificial Intelligence (AI)?

Ans 1: Artificial Intelligence (AI) is a branch of computer science that enables machines or software to think, learn, and make decisions like humans.

It involves systems that can analyze data, recognize patterns, and adapt through experience.

Q2: What is “Exploring Innovations” in AI.

Ans 2: “Exploring innovations” means discovering and developing new ideas, technologies, and applications within AI. These innovations aim to make life easier, industries more efficient, and society more sustainable.

Q3: Write some examples of AI Innovations.

Ans 3: Examples of AI Innovations are-

- **Healthcare:** AI-powered diagnosis tools that detect diseases early (e.g., cancer detection through image analysis).
- **Education:** Personalized learning platforms that adapt lessons to each student's needs.
- **Agriculture:** Smart sensors and drones that predict weather and monitor crops.
- **Transportation:** Self-driving vehicles and smart traffic management systems.
- **Environment:** AI systems that track pollution levels or optimize energy use for sustainability.

Q4: Write the purpose of Exploring AI Innovations.

Ans 4: Purpose of Exploring AI Innovations are-

- To improve human life through technology.
- To solve complex global problems such as climate change and inequality.
- To create sustainable societies by balancing innovation with ethics and responsibility.

Q5: What do you mean by societal sustainability?

Ans 5: Societal sustainability means creating a society that can meet the needs of the present without harming future generations. AI contributes to this by:

Q6: How AI contributes to societal sustainability.

Ans 6: AI contributes to societal sustainability by-

- Promoting green technologies and efficient resource use.
- Supporting smart cities with cleaner energy and better transport systems.
- Enhancing education and healthcare access for all communities.
- Encouraging ethical and inclusive development, where technology benefits everyone.

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