***Principles of AI Surprise Test-1.1***

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***Sem.:-*** *4th* *Sem.* ***Section/Group:-*** *807/B*

***Subject:-*** *Principles of AI* ***Subject Code:-*** *20CST-258*

**Q1. What importance of AI in today’s world?**

**Ans.**

* AI technology is important because it enables human capabilities – understanding, reasoning, planning, communication and perception – to be undertaken by software increasingly effectively, efficiently and at low cost.
* General analytical tasks, including finding patterns in data, that have been performed by software for many years can also be performed more effectively using AI.
* The automation of these abilities creates new opportunities in most business sectors and consumer applications.
* Significant new products, services and capabilities enabled by AI include autonomous vehicles, automated medical diagnosis, voice input for human-computer interaction, intelligent agents, automated data synthesis and enhanced decision-making.
* AI has numerous, tangible use cases today that are enabling corporate revenue growth and cost savings in existing sectors.
* Applications will be most numerous in sectors in which a large proportion of time is spent collecting and synthesising data: financial services, retail and trade, professional services, manufacturing and healthcare. Applications of AI-powered computer vision will be particularly significant in the transport sector.
* Use cases are proliferating as AI’s potential is understood. We describe 31 core use cases across eight sectors: asset management, healthcare, insurance, law & compliance, manufacturing, retail, transport and utilities.
* We illustrate how AI can be applied to multiple processes within a business function (human resources).

**Q2. Elucidate the term ‘Artificial Intelligence’. Give an example of where AI is used on a daily basis.**

**Ans.** Artificial intelligence is the simulation of human intelligence processes by machines, especially computer systems. Specific applications of AI include [expert systems](https://www.techtarget.com/searchenterpriseai/definition/expert-system), natural language processing, speech recognition and [machine vision](https://www.techtarget.com/searchenterpriseai/definition/machine-vision-computer-vision).

An example of where AI is used on a daily basis are:-

1. Online shopping and advertising
2. Web Search
3. Digital personal assistants
4. Machines translations
5. Smart homes, cities, offices and infrastructure
6. Cars
7. Cyber Security
8. AI against covid-19
9. Fighting disinformation
10. Mobiles
11. Heath
12. Transport
13. Food and farming
14. Manufacturing
15. Public administration and services.