

class: VIII

Topic: Emerging Trends

Month: June

I Answer the following:

1. What do you understand by extended reality?

Ans: Extended Reality (XR) is the umbrella term for the immersive technologies, like augmented reality, virtual reality and mixed reality.

2. Define blockchain. Write an application where the concept of blockchain is being used.

Ans: Blockchain is a distributed database that is shared among nodes of a computer network. Blockchain stores information electronically in a digital format. The blockchain is being used in banking and finance to facilitate customers to view their transaction within a few seconds.

3. What are the components of an expert system?

Ans: There are three components of an Expert system.

(i) User interface

(ii) Interface Engine (Rules of engine)

(iii) Knowledge Base.

4. Define mixed reality:

Ans: Mixed reality is the combination of augmented reality and virtual reality.

users can interact with real world as well as virtual world simultaneously.

II Competency-based question:

Q. Company X makes autonomous cars. The car gets real-time data, like the extremities of roads, from its embedded network. Due to congestion in the network, there is delay in data regarding the road condition reaching the data centre and returning to the car, which can result in an accident on the road. What alternate computing can you suggest to Company X to avoid accidents?

Ans: To avoid accidents due to network congestion and data latency, company X can implement Edge computing.