

CBCS SCHEME

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20MBA301



Third Semester MBA Degree Examination, June/July 2023 Emerging Exponential Technologies

Time: 3 hrs.

Max. Marks: 100

**Note: 1. Answer any FOUR full questions from Q.No.1 to Q.No.7.
2. Question No. 8 is compulsory.**

- 1 a. Define Emerging Technology. (03 Marks)
b. Discuss various Human Machine Interactions Devices. (07 Marks)
c. Discuss four stages of Industrial Revolutions. (10 Marks)
- 2 a. What is Big data? (03 Marks)
b. Discuss various Data type from Data Analytics perspective. (07 Marks)
c. Explain in detail Data value chain. (10 Marks)
- 3 a. Define Artificial Intelligence. (03 Marks)
b. Discuss various levels of AI. (07 Marks)
c. What are the different types of AI? Briefly explain each of them. (10 Marks)
- 4 a. List out any 3 advantages of IoT. (03 Marks)
b. Discuss in detail Architecture of IoT. (07 Marks)
c. Discuss concept of Smart farming in detail. (10 Marks)
- 5 a. What is VR Headset? (03 Marks)
b. Explain the difference between AR, VR and MR. (07 Marks)
c. Discuss application of AR system in education. (10 Marks)
- 6 a. Explain concept of Digital privacy. (03 Marks)
b. Discuss role of Ethics in Technological Development. (07 Marks)
c. What is Block Chain Technology and how it works? (10 Marks)
- 7 a. Define Quantum Computing. (03 Marks)
b. Discuss in detail applications of Computer vision. (07 Marks)
c. Discuss in detail four V's of Big Data. (10 Marks)

8 CASE STUDY (Compulsory) :

An autonomous vehicle also known as a driverless car, self – driving car or robotic car is an automated or autonomous vehicle capable of fulfilling the main transportation capabilities of a traditional car. As an autonomous vehicle , it is capable of sensing its environment and navigating without Human input.

Autonomous vehicles sense their surrounding with such techniques as radar , lidar , GPS and computer vision. Advanced control systems interpret sensory information to identify appropriate navigation paths, as well as obstacles and relevant signage. These vehicles are capable of uploading their maps based on sensory inputs.

Questions :

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- a. Elaborate the technologies required to manage driver – less cars. (10 Marks)
- b. Discuss the Pros – Cons of Driverless cars. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.