

H.T No:

R18

Course Code: A36637



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VI Semester Regular Examinations May-2023

Course Name: ARTIFICIAL INTELLIGENCE APPLICATIONS

(Minor Programme in AI & ML)

Date: 19.05.2023 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

1. Explain the three main linguistic components of natural languages. 2 M
2. How quantum computing related with Artificial Intelligence? 2 M
3. What are the most effective techniques for recognizing human emotions using facial expressions and body language? 2 M
4. What are the main challenges faced by AI-based systems when it comes to predicting diseases early. 2 M
5. Illustrate the uses of Robotic process Automation. 2 M
6. Summarize the benefits of automation in supply chain. 2 M
7. How AI can be used to enhance security systems? 2 M
8. What is meant by AI optimized hardware? 2 M
9. Explain the use of block chain integrated with AI. 2 M
10. Explain the role of AI in social issues. 2 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). Illustrate the implementation aspects of syntactic and semantic analysis of Natural language processing. 10M

OR

11. B). Explain the applications of Artificial intelligence in business. 10M

12. A). Analyze the applications of emotion recognition technology regarding to healthcare, education and entertainment. Examine and illustrate the benefits and drawbacks of these applications. 10M

OR

12. B). Can AI be used to personalize the sales and customer support experience for each individual customer? 10M

13. A). Explain in detail the steps of RPA for supply chain management. 10M

OR

13. B). Develop a usecase for the following "RPA can work with several other technologies to improve the aspect of supply chain management". 10M

(P.T.O..

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14. A). Explain the role of AI and Machine learning in digital twinning. 10M

OR

14. B). Illustrate the use of AI in cyber security. 10M

15. A). How AI and Machine Learning accelerate the development of smart city? 10M

OR

15. B). How do AI/ML handle the social problems? Give a brief note. 10M
