MAY 2022 **P/ID 17622/PCAE6**

Time : Three hours Maximum : 80 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. What is the purpose of neural network?

2. Why do we need biological neural network?

3. What is supervised learning?

4. Is neural network supervised or unsupervised learning.

5. What is CNN model?

6. What is incremental learning approach?

7. What is convergence in neural network?

8. What is reinforcement learning in neural network?

9. What is hybrid model in machine learning?

10. What is the best language for machine learning?

11. What is sequential model in machine learning?

12. Is RNN more powerful than CNN?

PART B — (5 × 6 = 30 marks)

Answer any FIVE questions.

13. List out the limitations of Neural Network.

14. Elaborate on Multi layer perception with its structure.

15. Bring out the elements of neural network.

16. What is adaptive training? Explain.

17. What is incremental learning? Explain.

18. Discuss briefly about hybrid neural network.

19. With a neat sketch, explain about RNN architecture.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Explain in detail about various activation functions in neural network with necessary diagrams.

21. How Neural Network differs from traditional computing and expert system? Explain.

22. With a neat sketch discuss in detail about the mathematical model in neural network.

23. What are hierarchical models in neural network? Explain in detail.

24. What are the sequence models? Discuss briefly about its applications.
