Code No.: CS8111PE | R20 | H.T.No. | | | 8 | R | | | | | | |

CMR ENGINEERING COLLEGE: : HYDERABAD

UGC AUTONOMOUS

I–M.Tech–I–Semester End Examinations (Regular) July- 2021

MACHINE LEARNING (PE - I)

(CSE)

[Time: 3 Hours] **[Max. Marks: 70]**

*1. Answer Any **FIVE** Questions. Each Question Carries 14 Marks*
2. Illustrate your answers with NEAT sketches wherever necessary.

5 x 14M=70M

1. What is the procedure of building Decision tree using ID3 with Gain and Entropy. Illustrate with example. [14M]

2. Define Bayesian theorem? What is the relevance and features of Bayesian theorem? Explain the practical difficulties of Bayesian theorem. [14M]

3. Define clustering. What are the different types of clustering explain in detail? [14M]

4. a) Explain detail note on Mixture models in machine Learning.
   b) What is Boosting? Discuss with neat relevant example? [7+7M]

5. a) Discuss Learning Vector Quantization algorithm with neat sketch?
   b) Explain the concept of modeling sequence timing series data? [7+7M]

6. a) Discuss scalable Machine learning with distributed & online?
   b) How does inference in graphic model occurs explain the technology? [7+7M]

7. a) Give a detail note on Classification methods for IOT with neat sketch?
   b) What are advantages and disadvantages of IOT discuss with real time example? [7+7M]

8. a) Explain different networking and communication model in IoT.
   b) Explain PCA and its process with their applications. [7+7M]