Total Duration : 2 Hrs 30 Mins.   **Total Marks : 60**

Section A

Answer any **SIX** questions $(6 \times 5 = 30$ Marks$)$

1. Define Grouping and Grading.

2. Brief Multilayer Perceptron.

3. Explain Applications of Machine Learning.

4. What is Machine Learning?

5. Describe Probably Approximately Correct Learning.

6. Explain in detail market basket analysis problem.

7. Explain in detail FP growth.

8. Define support and confidence in Association rule mining.

Section B

Part A

Answer any **TWO** questions $(2 \times 10 = 20$ Marks$)$

9. Explain the components of learning.

10. Describe in detail about Mining Frequent item sets with Candidate Generation.

11. Describe the Perspective and Issues in Machine learning.

12. Consider the database has ten transactions. Let min_sup $=20\%$

TID	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10
List of Items	I1,I2,I5	I2,I4	I2,I3	I1,I2,I4	I1,I3	I2,I3	I1,I3	I1,I2,I3,I5	I1,I2,I3	I1,I2

Diagnose the frequent patterns and Draw FP tree for the given database.

Part B

Compulsory question $(1 \times 10 = 10$ Marks$)$

13. Explain various models to improve the efficiency of Aprior Algorithm.

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M.Sc. - END SEMESTER EXAMINATIONS NOVEMBER - 2022
SEMESTER - III
20PBSCT3010 - Machine Learning Techniques

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