

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN  
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)  
Chromepet, Chennai — 600 044.

M.Sc. END SEMESTER EXAMINATION APRIL/NOV - 2021

SEMESTER - III

20PBSCT3010 - Machine Learning Techniques

<b>Total Duration : 3 Hrs</b>		<b>Total Marks : 75</b>
MCQ	: 30 Mins	MCQ : 15
Descriptive	: 2 Hrs.30 Mins	Descriptive : 60

Section B

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

1. Illustrate the Probabilistic Models.
2. Brief Multilayer Perceptron.
3. Explain the Types of Learning.
4. Explain Grouping and Grading.
5. Describe Probably Approximately Correct Learning.
6. Explain in detail market basket analysis problem.
7. Explain in detail FP growth.
8. Illustrate how to generate association rules from frequent item sets.

Section C

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. Explain the techniques to improve the efficiency of Aprior algorithm.

Part B

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

13. Explain various models to improve the generate association rules from frequent item sets.