UNIT TEST-2 (09th March 2022)

BSc. VIth Sem (Data Mining)

Marks: 30 Time: 1hours

All questions are compulsory.

Q. No.	Write all answers in one place.							Mark
1 2	(i)Why association rule mining is used? (ii) Brief about k-fold cross validation. (iii)What is the limitation of k-mean clustering? (iv)How to measure distance between vector objects? (v) What is Ordinal variable? Give an example. (vi) Give a common example of nonlinear separable problem. Given two objects represented by the tuples (22, 1, 42, 10) and (20, 0, 36, 8).							6 x 2
_	(i)Compute the Euclidean distance and Manhattan distance between two objects . (ii)Compute the Minkowski distance between the two objects using p=3							
3	class c	of the new tup	ole,		yes, credit ra	fication algorithm find ating =fair} Class : Buys computer No No Yes Yes Yes No Yes	out the	06
4	Suppose that the data mining task is to cluster the following nine points into three clusters. A ₁ (2, 10), A ₂ (2, 5), A ₃ (8,4), B ₁ (5, 8), B ₂ (7, 5), B ₃ (6, 4), C ₁ (1, 2), C ₂ (4, 9), C ₃ (3,4) The distance function is Euclidean distance. Suppose initially we assign A ₂ , B ₂ and C ₂ as the center of each cluster respectively. Use the k-means algorithm to show the three cluster centers after the first round of execution.							06