



BRAINWARE UNIVERSITY

Term End Examination 2023 Programme – B.Tech.(CSE)-2019/B.Tech.(CSE)-2020

Course Name – Data Mining Course Code - PEC-602C (Semester VI)

LIBRARY **Brainware University** Barasat, Kolkata -700125

Time: 2:30 Hours Full Marks: 60

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

- Choose the correct alternative from the following:
- (i) The dual optimization problem in SVM design is classifying using
 - a) Linear programming

b) Quadratic programming

c) Dynamic programming

- d) Integer programming
- (ii) Compute the main point of difference between the adaline & perceptron model
 - a) weights are compared with output
- b) sensory units result is compared with output
- c) analog activation value is compared with output
- all of the mentioned
- (iii) 'Name of a person', can be located as an attribute of type.
 - a) Nominal

b) Ordinal

c) Interval

- d) Ratio
- (iv) A frequent itemset is one which quote the
 - a) Support criteria

- b) Confidence criteria
- c) Both support and confidence criteria
- d) None of the above
- (v) Show the fundamental unit of network
 - a) brain

b) nucleus

c) neuron

- d) axon
- (vi) The amount of rain that falls in a day is usually measured in either millimeter (mm) or inches. Suppose you use a learning algorithm to predict how much rain will fall tomorrow. Determine this as a classification or a regression problem
 - a) Regression

b) Classification

c) All of the above

- d) None of these
- (vii) Leaf nodes of a decision tree refer to:
 - a) Attributes

b) Classes

c) Data instances

- d) None of the above
- (viii) In principal component analysis, the projected lower dimensional space report to

11. Explain the various Data Mining functionalities with proper example.

b) eigenvectors of the data covariance matrix

(5)

a) subset of the original co-ordinate axis

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	Calculate to identify the proper Margin in Support Vector Machine with the help of primal and dual problem.	(5)	
12.	Explain the confusion Matrix along with formulation of various Cost-Sensitive Measure. OR	(5)	