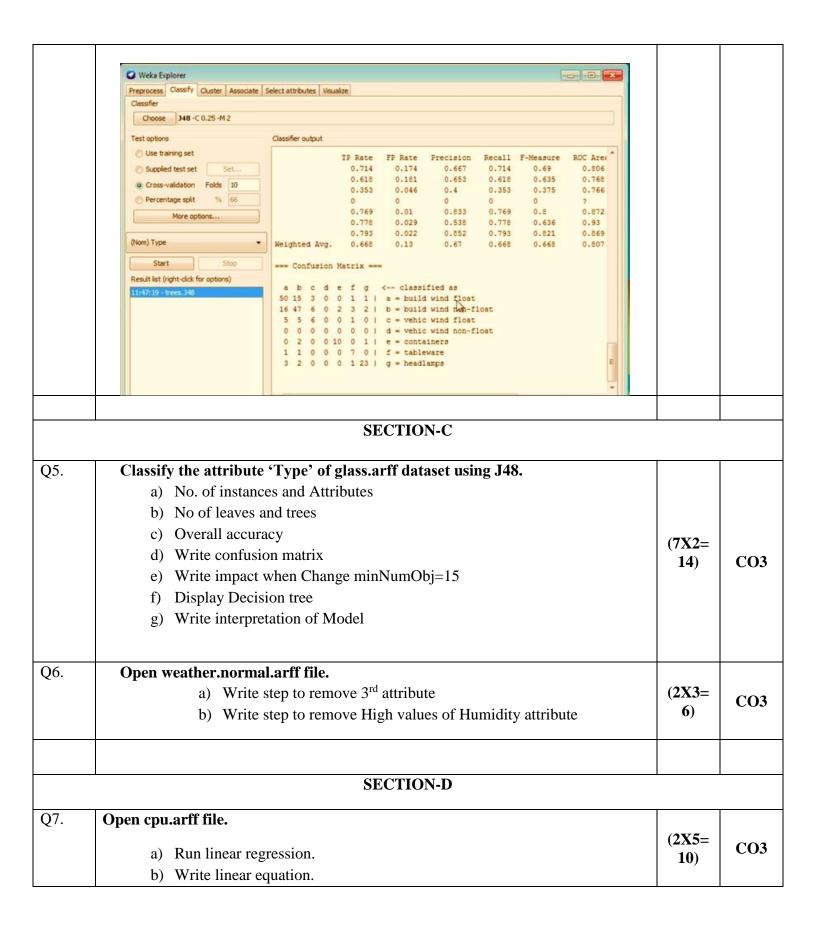
SET I

	Name: Enrolment No: UNIVERSITY WITH A PURPOSE			
	UNIVERSITY OF PETROLEUM AND ENERGY STUDIES			
	End Semester Examination, May 2019			
Course: Data Mining So			Semester: II Time: 03 Hours Max. Marks: 100	
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111811 0	SECTION A			
		Marks	CO	
	Use Weka to answer the below questions:			
Q1	Open the <u>contact-lenses</u> dataset.			
	a) How many instances are thoras?			
	a) How many instances are there?b) How many attributes are there?			
	c) How many possible values are there for the <i>age</i> attribute?	5	CO2	
	d) Which of these attributes has <i>reduced</i> as a possible value?			
	e) What is the default name of class attribute?			
	e) That is the default hand of class attribute.			
	SECTION B			
	SECTION B			
Q 2.	Differentiate between the following:			
	a) Classification and association			
	b) Classification and regression	(3X5=	CO2	
	c) Prune and unprune	15)		
	c) Trune and amprune			
Q3.	Define following with example:			
	a) Cross validation			
	b) Percentage split	(5X5=		
	c) Training data	25)	CO1	
	d) Clustering			
	e) Test data			
Q4.	Describe the below given confusion matrix:	5	CO2	



	c) Run Non- linear regression.		
	d) Write all the linear equations.e) Justify which one is better and why.		
Q8.	Define K mean clustering algorithm and run the weather.numeric.arff data for clustering and write the output with justification.	(10)	CO2
Q9.	Run Apriori algorithm on weather.nominal data and write the ten best association rules.	(10)	CO3

SET II

Name:	Name: Enrolment No: UPES UNIVERSITY WITH A PURPOSE		
Enrolme			
	UNIVERSITY OF PETROLEUM AND ENERGY STUDIES		
Program Course	m: MBA(BA)	Semester: 1 Fime: 03 H Max. Mark	ours
		Marks	СО
Q1	Write short notes on the following: a) Weka b) Attribute c) Instances d) Flat file e) J48 	5	CO1
	SECTION B		
Q 2.	Differentiate between the following: a) Classification and association b) Nominal and Numeric attribute c) Training and Test data	(3X5= 15)	CO2
Q3.	Define following with example:		
	 a) Classification b) Association c) Regression d) Clustering e) Overfitting 	(5X5= 25)	CO1

Q4.	Explain the below given diagram:		
	Training ML algorithm Classifier Deploy!	(5)	CO2
	SECTION C		
	SECTION-C		
Q 5.	Classify the attribute 'Type' of glass.arff dataset using J48.		
	 a) No. of instances and Attributes b) No of leaves and trees c) Overall accuracy d) Write confusion matrix e) Write impact when Change minNumObj=15 f) Display Decision tree g) Write interpretation of Model 	(7X2= 14)	CO2
Q6.	Open weather.normal.arff file.		
	 a) Write step to remove 3rd attribute b) Write step to remove High values of Humidity attribute 	(2X3= 6)	CO2
	SECTION-D		
Q7.	Open cpu.arff file.	()VF	
	a) Run linear regression.b) Write linear equation.	(2X5= 10)	CO3

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	c) Run Non- linear regression.		
	d) Write all the linear equations.		
	e) Justify which one is better and why.		
Q8.	Answer the following based on below given file:		
	@relation weather.symbolic		
	@attribute outlook {sunny, overcast, rainy}		
	@attribute temperature {hot, mild, cool}		
	@attribute humidity {high, normal}		
	@attribute windy {TRUE, FALSE}		
	@attribute play {yes, no}		
	@data		
	sunny,hot,high,FALSE,no		
	sunny,hot,high,TRUE,no		
	overcast,hot,high,FALSE,yes		
	rainy,mild,high,FALSE,yes		
	rainy,cool,normal,FALSE,yes		
	rainy,cool,normal,TRUE,no		CO2
	overcast,cool,normal,TRUE,yes		
	sunny,mild,high,FALSE,no sunny,cool,normal,FALSE,yes		
	rainy,mild,normal,FALSE,yes		
	sunny,mild,normal,TRUE,yes		
	overcast,mild,high,TRUE,yes		
	overcast,hot,normal,FALSE,yes		
	rainy,mild,high,TRUE,no		
	a) Write the name of relation, attributes and number of instances.		
	b) Name the class attribute and its labels.		
	c) Write any two decisions list based on above data.	3	
	d) Calculate number of possible instances.	2	
	e) Draw decision tree based on above data.	5	
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