

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2019

Course: Data Mining & Prediction Modeling
Program: B.Tech CSE BAO
Time: 03 hrs.
Course Code: CSBA3001
Max. Marks: 100

			SECT	ION A				
S. No.							Marks	CO
Q 1	In real world o	4	CO1					
Q 2	occurrence. Describe various methods for handling this problem What are the major challenges of mining a huge amount of data (millions of tuples) in comparison with mining a small amount of data (hundred tuples)?							CO2
Q 3	Explain how the predictive accuracy of classification methods be estimated.							CO3
Q 4	What does it mean to deploy a machine learning model?							CO4
Q 5	Explain concept of CRISP-data mining with the help of suitable diagram.							CO1
			SECT	ION B				
	YES N YES Y YES N NO Y NO Y NO Y NO Y NO Y	Inp.	HEADACHE MILD NO STRONG MILD NO STRONG STRONG STRONG STRONG MILD	FEVER YES NO YES NO YES NO YES NO YES NO YES NO YES	FLU NO YES YES YES NO YES NO YES NO YES		10	CO3
Q 7	Outliers are often discarded as noise. However, one person's garbage could be another's treasure. For example, exceptions in credit card transactions can help us detect the fraudulent use of credit cards. Using fraudulence detection as an example, propose a method that can be used to detect outliers.							C02
Q 8	Write an algorithm for k-nearest neighbor classification given k , the nearest number of neighbors, and n , the number of attributes describing each tuple. OR							C03

				nck Propagation	on Algorithm and its		
Q 9	working philosophy by taking suitable example. Explain the terms: a) Model evaluation b) Model Validation c) Model Deployment d) Model Performance						C04
Q 10	Create a comple	ete decision tree	SECTIO	N-C	4.5 algorithm (based		
	Create a complo						
	OUTLOOK	TEMP	HUMIDITY	WIND	DECISION	20	CO3
	Sunny	Hot	High	Weak	No		
	Sunny	Hot	High	Strong	No		
	Overcast	Hot	High	Weak	Yes		
	Rain	Mild	High	Weak	Yes		
	Rain	Cool	Normal	Weak	Yes		
	Rain	Cool	Normal	Strong	No		
	Overcast	Cool	Normal	Strong	Yes		
	Sunny	Mild	High	Weak	No		
	Sunny	Cool	Normal	Weak	Yes		
	Rain	Mild	Normal	Weak	Yes		
	Sunny	Mild	Normal	Strong	Yes		
	Overcast	Mild	High	Strong	Yes		
	Overcast	Hot	Normal	Weak	Yes		
	Rain	Mild	High	Strong	No		
Q 11	A database has						
	TID						
	T2		{X,B,C,D {A,Y,D	-			003
	T3	9+9+2	CO3,				
	T4 T5						
	Find all frequer the efficiency of						