Quiz No 2

Data Science Fall 2018 (Sep 18, 2018)

Name:_____	Roll#:_____

Q 1) Identify whether following tasks are data mining tasks or not? Explain each with valid reason. 5

(i) A company wants to sort his employees on the basis of employee salary to know highest salaried employees.

(ii) Government of KPK wants to find common symptoms for dengue fever on the basis of historical data of patients.

(iii) Monitoring the pulse rate of a patient.

(iv) Predicting future stock price of a company on the basis of historical data.

(v) Computing revenue of a particular product.

Q 2) What is difference between predictive data mining task and descriptive data mining task? Write 1 example of each 4

Q 3) Write down appropriate data mining task name against each data mining technique . 6

Data Mining Technique	Supervised/Unsupervised	Predictive/Descriptive
Anomaly Detection		
Regression		
Sequential pattern discovery		
Association rule discovery		
Classification		
Clustering		

Q 4) Write down appropriate step name of CRISP-DM model against each of the following activities of a process model. 6

Process Model Activity	CRISP-DM Step
Write final report and presentation	
Build and verify models	
Data selection	
Verification of data quality	
Assessment of results	
Set business success criteria	

Q 5) Write appropriate type against each of the following data sets 6

Data Set	Type of data set(Record/Graph/Ordered)
Google pages	
Data matrix/Pattern matrix	
Spatial temperature data	
Structure of Ammonia(NH_3) molecule	
Genomic sequence data	
Document-term matrix	

Q 6) Write appropriate types for each of the following attributes. 9

Attribute Name	**Type of attribute(qualitative /quantitative)**	**Type of attribute(Nominal/ Ordinal, Interval/Ratio)**	**Type of attribute(Discrete/ Continuous)**
Number of students			
Blood pressure			
Temperature			
Occupation			
Military rank			
Weight			

Q 7) What do you think about following techniques, where they will be used in practical life? 6

Data Mining Technique	Applications
Anomaly Detection	
Regression	
Sequential pattern discovery	
Association rule discovery	
Classification	
Clustering	