SCD - 4842

Third Year B.C.A (Semester - II) Examination
Paper - 15BCA312
Elective :-
Data Mining

Time : Three hours] [Full Marks - 60

N.B. :
i) All questions carry equal marks
ii) Due credit will be given to neatness & adequate dimensions.
iii) Assume suitable data wherever necessary.
iv) Illustrate your answer necessary with the help of neat skectches.
v) Use Blue/Black ink/refill only for writing the answer book.

Q.1 Fill in the blanks and rewrite the following statements. 5

a) The output of KDD is ____
i) Data ii) Information
iii) Useful information iv) Query

b) Missing values, Noise and outliers and duplicate data are problem of ____
i) Processing Data ii) Mapping Data
iii) Evaluating Data iv) Data Quality

c) Association rules a real ways define on _____
i) Binary Attributes
ii) Single Attriubutes
iii) Multidimensional Attributes
iv) None of these

d) Classification rules are extracted from ____
i) Root Node
ii) Decision Tree
iii) Siblings
iv) Branches

e) ____ is the not a type of clustering.
i) Spliting ii) K-means
ii) Hierarchical iv) Partitional

Q.2 a) Explain architecture of Data Mining with neat diagram. 6
b) Describe the classification of data mining system. 5

OR

Q.3 a) Discuss various steps of Knowledge discovery from database. 5
b) Mention the advantages and disadvantages of data mining. 6

Q.4 a) What is Data Transfomation ? Explain various methods of data transformation. 6
b) What is Data Cleaning ? Describe different ways of handling missing values. 5

OR

Q.5 a) Explain the concept of Hierarchy Generation. 6
b) Define data reduction and data cube aggregation. 5

Q.6 a) Explain the basic concept of mining frequent pattern. 5
b) Explain various Association rules for data mining. 6

OR

Q.7 a) Explain the Aprior Algorithm for finding the Frequent Itemsets. 5
b) Explain the process of constraint based association mining. 6

Q.8 a) What is Linear and Non Linear Regression explain. 6
b) List out some of the issues regarding clustering and prediction. 5

OR

Q.9 a) Explain Bayesian classification. 5
b) Explain IF- THEN Rules in classification with example. 6

Q.10 a) What is Cluster Analysis ? What are the typical requirements for the clustering in data mining ? 6
b) Explain Key issues in Hierarchical clustering methods. 5

OR

Q.11 a) Explain K-Means partitioning method with example. 5
b) Explain the following Hierarchical methods of cluster analysis. 6
i) Agglomerative ii) Divisive

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