Q.P. Code: 24210

3 Hours)   **[Total Marks 80]**

- i. **Q. 1. is Compulsory.**
- ii. **Attempt any three from the remaining.**
- iii. **Assume suitable data.**

Q. 1   **(a)**   Explain Regression based classifier   **(5)**

         (b)   What is Data Preprocessing? Explain the different methods for the Data Cleansing   **(5)**
phase

         (c)   What is hierarchical clustering? Explain any two techniques for finding distance   **(5)**
between the   clusters in hierarchical clustering.

         (d)   Define "Data mining", Enumerate five example applications that can benefit by   **(5)**
using Data Mining

Q. 2   **(a)**   Explain clearly working of DBSCAN using appropriate diagrams   **(10)**

         (b)   Explain Data mining as a step in KDD. Give the architecture of typical Data Mining   **(10)**
system

Q. 3   **(a)**   Explain BIRCH algorithm with example   **(10)**

         (b)   Explain different visualization techniques that can be used in data mining   **(10)**

Q. 4   **(a)**   Explain Multilevel association rules with suitable examples   **(10)**

         (b)   Define classification, issues of classification and explain ID3 classification with   **(10)**
example

Q. 5   **(a)**   Explain Bagging and Boosting of classifiers   **(10)**

         (b)   Explain Box plot summary with example   **(10)**

Q. 6   **(a)**   Explain Business Intelligence Issues   **(10)**

         (b)   What is clustering? Explain k-means clustering algorithm. Suppose the data for   **(10)**
clustering – {2, 4, 10, 12, 3, 20, 11, 25} Consider k=2, cluster the given data using
above algorithm.

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Q. P. Code: 26574

(03 hours)   Total marks: 80

Note: 1. Q.1 is compulsory
      2. Attempt any 3 from remaining
      3. Assume suitable data if necessary.

Q1 a) What are spiderable link structures? Explain with a suitable example.   10
    b) Explain SWOT analysis. List the factors that determine strengths and
       weaknesses in SWOT analysis.   10

Q2 a) Describe the role of the querySelector() and querySelectorAll() methods in CSS. 10
    b) Explain in detail JSON mashup with diagram.   10

Q3. a) What are the characteristics of REST WSs?   10
    b) Explain AJAX Web application model.   10

Q4. a) Make a style sheet in which background color of alternate paragraph
       should be different.   10
    b) Define and describe mashups. What are the primary reasons for the success
      of mashups?   10

Q5. a) Using HTML5 Draw a canvas containing a star.   10
    b) Explain characteristics of RIA. Discuss web services.   10

Q6. a) What is media query? How is a media query used?   5
    b) What is the role of the hidden field?   5
    c) Explain pagination. List its limitations.   5
    d) List all the elements of a web page.   5

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