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Code: R7421504

R7

B.Tech IV Year II Semester (R07) Supplementary Examinations March/April 2013

DATA WAREHOUSING & DATA MINING (Common to CSSE & ECC)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions All questions carry equal marks *****

- 1 Briefly discuss about data integration. (a)
 - (b) Briefly discuss about data transformation.
- 2 Compare the advantages and disadvantages of eager classification versus lazy classification.
- 3 Write the FP-growth algorithm for discovering frequent item sets without candidate generation. Explain an example.
- 4 Explain the following:
 - Spatial association analysis. (a)
 - (b) Sequential pattern mining.
 - (C) Latent semantic indexing.
 - Term frequency matrix. (d)
- ter.com Explain the following terms in detail: 5
 - Concept description. (a)
 - Variance and standard deviation. (b)
 - Mean, median, and mode. (C)
 - Quartiles, outliers and box plots. (d)

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6 Describe each of the following clustering algorithms in terms of the following criteria: (i) Shapes of clusters that can be determined;

(ii) input parameters that must be specified; and (iii) limitations.

- (a) k-means
- (b) k-medoids
- (c) CLARA.
- (d) BIRCH.
- (e) ROCK.
- (f) CHAMELEON.
- (g) DBSCAN.
- 7 Write a short note on following:
 - (a) Missing values.
 - (b) Noisy data.
 - (c) Inconsistent data.
 - (d) Data cube aggregation.
- 8 (a) Given two objects represented by the tuples (22,1,42,10) and (20,0,36,8):
 - (i) Compute the Euclidean distance between the two objects.
 - (ii) Compute the Manhanttan distance between the two objects.
 - (iii) Compute the Minkowski distance between the two objects, using q=3.
 - (b) Explain about statistical-based outlier detection and deviation-based outlier detection.



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