C 80560

(Pages : 2)

EIGHTH SEMESTER B.TECH. (09 SCHEME) (ENGINEERING) DEGREE EXAMINATION, APRIL 2015

CS 09 802—DATA MINING AND DATA WAREHOUSING

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

1. What are the kinds of patterns that can be mined ?

2. Bring out the importance of data cleaning.

3. What do you mean by association rule mining ?

4. What is rough set ?

5. Enumerate the building blocks of data warehouse architecture.

(5 × 2 = 10 marks)

Part B

Answer any four questions.

6. Bring out the importance of OLAP technology for data mining.

7. Describe in detail about data integration and transformation in data preprocessing.

8. Write short notes on transactional databases.

9. Explain in brief about data generalization.

10. Explain in detail about cluster analysis.

11. Discuss about the recent trends in data warehousing.

(4 × 5 = 20 marks)

Part C

Answer all questions.

12. (a) With a neat sketch explain in detail about OLAP technology for data mining.

Or

(b) Discuss about the concept-hierarchy generation and various steps involved in it.

13. (a) Explain the data mining system architecture in detail with neat sketch.

Or

(b) Explain in detail about characteristic and discriminant rules in data mining.

Turn over

14. (a) Explain in detail about decision table and rough sets with an example.

Or

(b) Enumerate and explain the steps involved in :

    (i) Decision tree induction.

    (ii) Bayesian classification.

15. (a) Discuss in detail about data warehouse applications.

Or

(b) Write short notes on :

    (i) Need for data warehousing.

    (ii) Hardware and operational design of data warehouse.

(4 × 10 = 40 marks)