

16/6/16 FN

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Question Paper Code : 27335

5 Year M.Sc. DEGREE EXAMINATION, MAY/JUNE 2016

Elective

Software Engineering

ESE 514 – DATA MINING AND DATA WAREHOUSING

(Regulations 2010)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A (10 × 2 = 20 Marks)

1. What is an operational database ?
2. List the applications of data mining.
3. How are association rules generated for large databases ?
4. What are the OLAP operations ?
5. What is database schema ? Explain.
6. Explain the use of metadata in data warehousing.
7. Mention the steps in the physical design of data warehouse.
8. Why the data warehouse must be backed up ? Give reasons.
9. What is the need for tuning data warehouse ?
10. Explain the features of data warehouse.

PART – B (5 × 16 = 80 Marks)

11. (a) What is concept learning ? How does it differ from machine learning ? Explain the issues in concept learning. (16)

OR

- (b) (i) What is data warehouse ? Explain some specific rules that govern the basic structure of a data warehouse. (10)
(ii) Discuss about client server and data warehousing. (6)

12. (a) What are the steps in the process of knowledge discovery ? Explain in detail. (16)

OR

- (b) State the importance of visualization of discovered patterns. Explain the role of presentation in pattern visualization and various visualization techniques in KDD. (4 + 12)

13. (a) Explain the process flow within a data warehouse. (16)

OR

- (b) (i) What are the functions of data warehouse manager ? Explain its structure. (9)
(ii) Explain the horizontal hardware partitioning technique. (7)

14. (a) (i) Explain the physical design objectives and consideration of data warehouse. (10)
(ii) What are the technical issues to be considered in implementing data warehouse ? (6)

OR

- (b) (i) List and explain common provisions to be found in a good data warehouse security policy. (10)
(ii) Explain the factors to be included in backup strategy. (6)

15. (a) How do the statistics help in fine-tuning the data warehouse ? Describe different types of action for growth planning prompted by the collected statistics. (16)

OR

- (b) Discuss various methods for testing data warehouse.