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DSECA603

VI Semester B.C.A. Degree Examination, June/July-2026
(NEP Scheme F+R)
COMPUTER APPLICATIONS
Fundamentals of Data Science
Paper : DSE-E2

NEW HORIZON COLLEGE
LIBRARY
KASTURINAGAR
BANGALORE-43

Time : 2½ Hours **Maximum Marks : 60**

Instructions :

Answer All questions. Section A, Section B and Section C.

SECTION - A

I. Answer any Six questions. Each question carries Two marks. (6×2=12)

1. State any two challenges faced in data mining.
2. Define Data mining.
3. Define Data warehouse.
4. What is Data Reduction?
5. Define frequent item set.
6. What is the Apriori property?
7. What is classification?
8. What is precision and recall?
9. Define cluster analysis.

SECTION - B

II. Answer any Four questions. Each question carries Six marks. (4×6=24)

10. Explain KDD process in detail.
11. Why is a separate data warehouse needed instead of using operational database directly?
12. Explain Association Rule Mining.
13. Explain lazy learners.
14. Write a note on Grid-Based Methods.
15. Explain Hierarchical Clustering.

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SECTION - C

III. Answer any Three questions. Each question carries Eight marks. (3×8=24)

16. Explain any five data mining techniques and mention real world applications for each.
17. Describe the Multidimensional Data Model in detail.
18. Explain Apriori algorithm for frequent item set mining with all steps.
19. Explain Bayes classification using Bayes Theorem.
20. Write a note on evaluation of clustering.
