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NA—318—2023

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (Third Year) (Sixth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(CBCS/New Pattern)

COMPUTER SCIENCE

Paper-XV

(Data Mining)

(Friday, 22-12-2023)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :— (1) *All questions are compulsory.*

(2) *Figures to the right indicate full marks.*

(3) *Assume suitable data, if necessary.*

(4) *Use of any electronic media such as mobile phone, digital diary and electronic calculator is not permitted.*

1. *Attempt the following :*

(a) *What is Cluster Analysis ? Explain the categorization of major clustering methods in detail.* 15

Or

(b) *Explain the crucial decisions in designing a data warehouse in detail.* 8

(c) *Describe the associations and correlations.* 7

2. *Attempt the following :*

(a) *Define data warehousing. Explain the application of Data Warehousing and Data Mining.* 15

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(2)

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Or

- (b) Explain the partitioning methods. 8
- (c) Elaborate the term “from Data Warehousing to Data Mining”. 7
3. Write short notes on the following (any *two*) : 10
- (a) Mining Frequent Patterns
- (b) Agglomerative and Divisive Hierarchical clustering
- (c) Frequent Itemset Mining Methods
- (d) Mining Algorithm.

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