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NY—191—2023

FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (Second Year) (Third Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(New/CBCS Pattern)

COMPUTER SCIENCE

Paper-CS-303

(Data Mining and Data Warehousing)

(Saturday, 9-12-2023)

Time : 2.00 p.m. to 5.00 p.m.

Time—3 Hours

Maximum Marks—75

N.B. :— (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

(iii) Assume suitable data, if required.

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

1. Attempt the following :

(a) Define data mining. Explain the Data Mining Vs. Knowledge discovery in databases. 15

Or

(b) Explain the term “Data Warehousing—the only viable solution”. 8

(c) Explain the web structure mining. 7

P.T.O.

2. Attempt the following :

(a) Define Classification. Explain the distance based algorithms. 15

Or

(b) What are Database/OLTP systems ? Explain in detail. 8

(c) Describe the neural network-based algorithm. 7

3. Attempt the following :

(a) What is Clustering ? Explain the parallel and distributed algorithms. 15

Or

(b) Explain the Information Retrieval in Data Mining. 8

(c) Describe the working of neural networks in Data Mining. 7

4. Attempt the following :

(a) Define Web Mining. Explain the Web usage and Web content mining. 15

Or

(b) Explain the Hierarchical algorithms. 8

(c) Explain the Decision Support Systems. 7

5. Write short notes on (any *three*) : 15

(a) Decision Tree

(b) Dimensional Modeling

(c) Data Warehouse Concept

(d) Basic Data Mining Task

(e) Web Search Engines.