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BT—06—2016

FACULTY OF COMPUTER STUDIES

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

OCTOBER/NOVEMBER, 2016

(Revised Course)

SOFTWARE ENGINEERING

(Data Mining)

(Thursday, 17-11-2016)

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

Time—3 Hours

Maximum Marks—100

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

(ii) Assume suitable data, if necessary.

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|----|-----|--|----|
| 1. | (a) | Explain basic data mining tasks. | 10 |
| | (b) | Explain K-means clustering. | 10 |
| | | <i>Or</i> | |
| | (c) | State and explain Bayes theorem. | 10 |
| | (d) | Explain CURE Algorithm. | 10 |
| 2. | (a) | Explain KDD process. | 10 |
| | (b) | Explain web content mining. | 10 |
| | | <i>Or</i> | |
| | (c) | Explain OLTP systems. | 10 |
| | (d) | Explain concept of Regression and correlation. | 10 |
| 3. | (a) | Explain K-nearest neighbor algorithm. | 10 |
| | (b) | Explain web usage mining. | 10 |
| | | <i>Or</i> | |
| | (c) | Explain data mining issues. | 10 |
| | (d) | Explain Hypothesis testing. | 10 |

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4. (a) Explain web structure mining. 10
(b) Explain Information Retrieval system. 10
Or
(c) Explain BIRCH Algorithm. 10
(d) Explain simple distance based algorithm for classification. 10
5. Write short notes on the following (any *four*) : 20
(a) Outlier
(b) Minimum spanning tree
(c) Data warehousing
(d) Visualization techniques
(e) Data mining metrics
(f) OLAP.

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