DOE
03-9-15

Mid Semester Examination – 2015 (Autumn)
School of Computer Engineering
KIIT University – Bhubaneswar -24

Time: 2hrs   Full Marks: 25

(Answer any Five Questions including Question No. 1 which is compulsory)

Q. 1   Answer the following questions briefly.   (1x5)

(a)   Define Correlation Analysis with suitable example?
(b)   Explain min max normalization with suitable example.
(c)   Describe any one method of measuring the central tendency of data.
(d)   Explain Distributive measure based on the kind of aggregate functions used.
(e)   Explain Entity Identification problem with respect to Data Integration.

Q.2 (a)   Explain data mining functionalities with suitable example?   2.5

(b)   Briefly outline how to compute the dissimilarity between objects described by symmetric and asymmetric binary attributes.   2.5

Q. 3 (a) Explain Data Mining as a step in the KDD with suitable figure.   2.5

(b) Explain with example different kinds of attributes available in data mining.   2.5

Q. 4 (a) Given two objects represented by the tuples (22, 1, 42, 10) and (20, 0, 36, 8): Compute the Euclidean and Manhattan distance between the two objects.   2.5

(b) Explain the strategies for Data Transformation.   2.5

Q. 5 (a) Explain three tier data warehouse architecture with suitable diagram.   2.5

(b) Explain any one method of dimension reduction strategies.   2.5

Q. 6 (a) Write down any five difference between OLTP and OLAP.   2.5

(b) Explain different types of schema used in multidimensional model in data warehousing.   2.5

Q.7. Write short notes on any two of the following –   [2.5 x 2]

(a) OLAP Operations
(b) Major issues in Data Mining
(c) Data Matrix and Dissimilarity Matrix.
(d) Concept Hierarchy