CS/IT 422

Hall Ticket Number:

IV/IV B.Tech (Supplementary) DEGREE EXAMINATION

October, 2016 **Common for CSE & IT**

Eighth Semester **Data Engineering**

Time: Three Hours **Maximum :** 60 Marks

Answer Question No.1 compulsorily. (1X12 = 12 Marks)

Answer ONE question from each unit. (4X12=48 Marks)

1. Define the following (1X12=12 Marks)

a) AOI
b) Pre-process
c) Central Tendency
d) Descriptive Mining
e) auto-correlation
f) LPI
g) categorization
h) schema
i) DMQL
j) aggregation
k) Evolution Analysis
l) Mining class

UNIT – I

2. a) What motivated towards data mining? Why is it important? 6M
b) What kind of data can be used for data mining? 6M

(OR)

3. a) How are organizations using the information from data warehouses? 6M
b) Explain classification of Data mining Systems 6M

UNIT – II

4. a) Explain Data Transformation 6M
b) Explain Entropy-Based Discretization 6M

(OR)

5. a) Explain Data Cleaning as a Process 6M
b)Discuss effective methods that can be used to reduce the number of rules generated while still preserving most of the interesting rules 6M

UNIT – III

6. a) Under which condition density-based clustering is more suitable than partitioning-based clustering and hierarchical clustering. Explain with example 6M
b) Outline an efficient algorithm that may extend density connectivity-based clustering for finding clusters of arbitrary shapes in projected dimensions in a high-dimensional data set. 6M

(OR)

7. Describe each of the following clustering algorithms in terms of the following criteria: 12(3 x 4)
(i) shapes of clusters that can be determined;
(ii) input parameters that must be specified;
(iii) limitations.

(a) k-means
(b) k-medoids
(c) DBSCAN

UNIT – IV

8. a) Why is tree pruning useful in decision tree induction? What is a drawback of using a separate set of tuples to evaluate pruning? 6M

b) Why is naïve Bayesian classification called "naïve"? Briefly outline the major ideas of naïve Bayesian classification. 6M

(OR)

9. a) Explain with example to show that TF-IDF may not be always a good measure in document classification. 6M

b) Discuss about Automatic Classification of Web Documents. 6M

CS/IT 424(E)

Hall Ticket Number:

IV/IV B.Tech (Supplementary) DEGREE EXAMINATION

October, 2016 **Common for CSE & IT**

Eighth Semester **Software Testing Methodologies**

Time: Three Hours **Maximum :** 60 Marks

Answer Question No.1 compulsorily. (1X12 = 12Marks)

Answer ONE question from each unit. (4X12=48 Marks)

1. Answer the following (12X1=48 Marks)
   a. What is quality assurance?
   b. What is meant by black box testing?
   c. Describe how defects from early phases add to costs.
   d. Write short notes on scenario testing.
   e. Describe overview of system testing.
   f. What is meant by regression testing?
   g. Describe buddy testing.
   h. Write test roles for usability.
   i. Write perceptions and misconceptions about testing.
   j. Write terms used in automation.
   k. What are metrics and measurements?
   l. Write generic requirements for test tool.

UNIT I

2. a. Write various principles of Testing. 4M
   b. Explain static testing in detail. 8M

(OR)

3. a. Explain Phases of Software Project. 8M
   b. Explain structural testing in detail. 4M

UNIT II

4. a. Describe top-down and bottom up integration. 6M
   b. Explain functional versus non-functional testing. 6M

(OR)

5. Explain various steps involved in a methodology for performance testing. 12M

UNIT III

6. a. Explain agile and extreme testing. 6M
   b. Describe phases and activities of usability testing. 6M

(OR)

7. Describe testing team structures for single product and multi product companies. 12M

UNIT IV

8. Explain test planning in detail. 12M

(OR)

9. a. Describe same test case being used for different types of testing. 6M
   b. Describe generations of automation. 6M