Hall Ticket Number :										

R-11

Code : 1G462

III B.Tech. II Semester Supplementary Examinations December 2015

Data Warehousing and Mining

(Information Technology)

Max. Marks: 70 **Time: 03 Hours**

Answer *any five* questions

All Questions carry equal marks (14 Marks each)

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1.		Elaborate the various types of data sets with examples and neat diagrams	14M
2.	a)	Explain the various kinds of dissimilarities between data objects	7M
	b)	What is the significance of jaccard coefficient & cosine similarity	7M
3.		Explain the various multi dimensional data models of data ware house	14M
4.		Explain the General approach to solving a classification problem	14M
5.		Explain the process of classification using bayes theorem	14M
6.		Explain the Frequent Item set generation using Apriori principle for the given five transactions such as 1–(bread, milk), 2–(bread, diapers, beer, eggs), 3–(milk, diapers, beer, cola), 4–(bread, milk, diapers, beer), 5–(bread, milk, diapers, cola).	14M
7.	a)	What is the significance of clustering	4M
	b)	Explain in detail the K-means clustering technique	10M
8	a)	Explain the Agglomerative hierarchical clustering with an example	7M
	b)	Explain DBSCAN clustering technique	7M

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Hall Ticket Number :										

R-11

Code : 1G164

III B.Tech. II Semester Supplementary Examinations December 2015

Object Oriented Analysis and Design

(Common to CSE & IT)

Max. Marks: 70 **Time: 03 Hours**

Answer *any five* questions

All Questions carry equal marks (14 Marks each)

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1.		Describe in detail about the building blocks of a unified modeling language.	14M
2.	a)	With respect to unified modeling language, explain the organization of attributes and operations of a class.	7M
	b)	Which relationship will be called as a structural relationship? Explain it in detail.	7M
3.	a)	What is an interface? How it is different from a package. Explain with example.	7M
	b)	How can we distinguish that an association relation is a real or conceptual.	7M
4.	a)	What is meant by semantic equivalence? Explain it in detail.	7M
	b)	List and explain the several kinds of actions that can performed on interactions.	7M
5.	a)	A use case describes what a system or subsystem does but it does not specify how it does it. Justify.	7M
	b)	Write and explain the steps of forward and reverse engineering of a use case diagram.	7M
6.	a)	Discuss in detail about the history states.	6M
	b)	Give brief description about the various kinds of events.	8M
7.	a)	List and explain the kinds of components supported by UML.	5M
	b)	What kind of relationship exists between nodes and components? Explain.	5M
	c)	Write short notes on the common uses of a component diagram.	4M
8.	a)	Generate the use case diagrams for library management system	7M
	b)	Draw the collaboration diagrams for money transaction using ATM.	7M

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Hall Ticket Number :										

R-11

Code : 1G464

III B.Tech. II Semester Supplementary Examinations December 2015

Software Testing Methodologies

(Information Technology)

Max. Marks: 70 **Time: 03 Hours**

Answer *any five* questions

All Questions carry equal marks (14 Marks each)

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1. a) What are the structural bugs and explain each briefly. 7M

   b) What is the importance of bugs and explain its impact with suitable metric. 7M

2. a) Explain Flow Graph-Program Correspondence. 7M

   b) Explain the procedure for Path-Testing Criteria. 7M

3. Explain the Transaction-Flow Testing Techniques briefly. 14M

4. a) Explain Simple Domain Boundaries and Compound Predicates with appropriate examples. 7M

   b) Explain procedure for two-dimensional domain testing. 7M

5. Explain the Reduction Procedure with suitable example. 14M

6. a) Explain the way to reach any point of interest in a given set of paths in a flow graph. 6M

   b) Briefly explain

      i) Predicates and relational operators 4M

      ii) Case statements and multivalued Logics. 4M

7. a) Explain the impact of bugs and strategy for state testing. 7M

   b) Explain Testing Tips briefly. 7M

8. a) Explain Parallel, Loop and Cross-reductions with examples. 7M

   b) Explain JMeter can be used for testing Web-application. 7M

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Hall Ticket Number :										

R-11

Code : 1G465

III B.Tech. II Semester Supplementary Examinations December 2015

Web Technologies

(Information Technology)

Max. Marks: 70 **Time: 03 Hours**

Answer *any five* questions

All Questions carry equal marks (14 Marks each)

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1. Explain the following terms related to HTML table:
   (a) Cell padding and spacing
   (b) Borders
   (c) Formatting content in Table cells
   (d) Nested tables. 14M

2. a) Describe the major differences between Java and Javascript. 4M
   b) Write a javascript which asks the user to enter two integers, obtains the numbers from the user and outputs HTML text that displays the larger number followed by the words "LARGER NUMBER" in an information message dialog. If the numbers are equal, output HTML text as "EQUAL NUMBERS". 10M

3. a) Explain validation process in XML? 7M
   b) With the help of an XML schema for the super market information management explain every feature available in schema. 7M

4. Take the TickTock Bean available in BDK, build an application which controls the Colors Bean. Develop the necessary code to exhibit the bound properties of java beans with the above mentioned beans. 14M

5. a) What are the basic steps in building and testing a simple servlet? 7M
   b) Give a note on servlet API. 7M

6. Create a Servlet that displays the current date and time. 14M

7. Develop a JSP to act as a simple search engine with the support of necessary database. Web page will accept the topic name and JSP will be activated by a "submit" button click. JSP will open relevant page with a set of relevant URLs for that topic. 14M

8. a) Explain about AJAX. 10M
   b) Write about functions in PHP. Give example for call by value 4M

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