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Hall Ticket Number:							

Code: 1G461

III B.Tech. II Semester Regular & Supplementary Examinations May 2016

Computer Graphics

(Information Technology)

Max. Marks: 70

Answer *any five* questions

All Questions carry equal marks (14 Marks each)

1.	a)	Explain about Random-Scan System.	7M
	b)	Explain the attributes of SRGP.	7M
2.	a)	Explain about Mid-Point Circle Drawing Algorithm.	7M
	b)	Explain about Scan line Algorithm for Polygon Filling.	7M
3.	a)	Explain about 2D Composite Transformations.	8M
	b)	What is Affine Transformation? Give the examples of Affine Transformation	6M
4.	a)	What is Line Clipping? Explain Cohen-Sutherland line clipping Algorithm.	7M
	b)	Explain about viewing coordinate reference frame.	7M
5.	a)	Explain about Hermit Curves.	7M
	b)	Explain specular reflection in illumination	7M
6.	a)	Explain about 3D Translation and Rotation transformations	7M
	b)	Explain the process of generating a view of a 3D Object.	7M
7.	a)	Explain about Back-Face Detection Method.	7M
	b)	What is the need of Area Subdivision Method explain.	7M
8.	a)	Define the term Computer Animation. Explain general computer animation functions.	7M
	b)	What is Morphing? Explain how it is used in Key Frame Systems.	7M

Time: 03 Hours

Hall Ticket Number :											
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R-11/R-13

Code: 1G462

III B.Tech. II Semester Regular & Supplementary Examinations May 2016

Data Warehousing and Mining (Information Technology)

Max. Marks: 70 Time: 03 Hours

Answer *any five* questions
All Questions carry equal marks (14 Marks each)

1.	a)	Explain the various types of data attributes	7M
	b)	What are the different data mining tasks	7M
2.	a)	What is the advantage of extended Jaccard coefficient	7M
	b)	Narrate the process of computing the Correlation between the data objects	7M
3.	a)	Explain the Architecture of data ware house with neat diagram	7M
	b)	What are the various OLAP operations	7M
4.		What is the Role of Entropy in selecting the Best split? Justify with an example	14M
5.		Illustrate the Representation of dependency among the variables using Bayesian belief networks	14M
6.		Explain the Frequent Item set generation using FP – Growth algorithm	14M
7.	a)	What are the various types of clusters	7M
	b)	Illustrate the additional issues related to K-means algorithm	7M
8	a)	What is the significance of DBSCAN clustering algorithm	9M
	b)	What are the strengths and weaknesses of DBSCAN algorithm	5M

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III B.Tech. II Semester Regular & Supplementary Examinations May 2016

Human Computer Interaction

(Information Technology)

Max. Marks: 70 Time: 03 Hours

Answer any five questions

Il Questions carry equal marks (14 Marks each)

	All Questions carry equal marks (14 Marks each) ****	
1. a)	Discuss the history of screen design	7M
b)	Compare a 1970's screen, a 1980's screen and a 1990's and beyond screen	7M
2.	What is meant by a graphical system? Discuss in detail various advantages and disadvantages of graphical systems?	14M
3.	Explain the various interaction speeds?	14M
4.	Analyze the organization of screen elements?	14M
5.	Define the following with respect to the Window a) Menu bar b) Status bar c) Scroll bar d) Tool bar e) Split bar f) Command area	
	g) Work area	14M

6. What are the issues to be considered in designing title bar and message box 14M

7. Give a brief note about the features of user interface building tools?

8. Give a brief note about the following

a) Keyboard

b) Function Keys 14M

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R-11/R-13

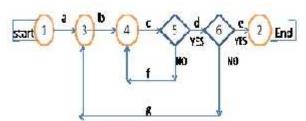
III B.Tech. II Semester Regular & Supplementary Examinations May 2016

Software Testing Methodologies

(Information Technology)

Max. Marks: 70 Time: 03 Hours

- 1. Why is it impossible for a tester to find all the bugs in a system? Why might it not be necessary for a program to be completely free of defects before it is delivered to its customers?
- 2. Consider the following flow graph? Select optimal number of paths to achieve C1+C2 (statement coverage + branch coverage



14M

14M

7M 3. a) What is meant by transaction flow testing? Discuss its significance 7M b) What are the applications of data flow testing 4. a) Discuss in detail about testability of Domains. 7M b) Explain various properties related to Ugly-domains. 7M 5. Explain Regular Expressions and Flow Anomaly detection 14M 6. What are decision tables? Illustrate the applications of decision tables. 14M 7. 14M Write testers comments about state graphs 8. What are graph matrices and their applications? 14M

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III B.Tech. II Semester Regular & Supplementary Examinations May 2016

Object Oriented Analysis and Design

(Common to CSE & IT)

Max. Marks: 70		Time: 03 Hours
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Answer any five questions All Questions carry equal marks (14 Marks each)

1.	a)	Discuss the four basic principles of modeling.	8M
	b)	Briefly Explain Diagrams in the UML	6M
2.	a)	Explain three kinds of relationships.	6M
	b)	Discuss structural diagrams.	8M
3.		What is the role of class diagram? Develop a library information system using class diagram.	14M
4.	a)	Draw a sequence diagram for ATM withdrawal.	8M
	b)	Explain the differences between sequence diagram and collaboration diagram through an example.	6M
5.	a)	Explain how Actors are related to use case diagrams.	6M
	b)	Define use case diagram and explain its common properties.	8M
6.		Write short notes on (i) Events and signals (ii) processes and threads (iii) state diagrams (iv) Transition and condition	14M
7.	a)	Discuss the usefulness of deployment diagram.	7M
	b)	Distinguish between three kinds of components.	7M
8.	a)	Draw deployment and component diagrams for the library system.	10M
	b)	Draw a class diagram showing architectural overview of the library system.	4M

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III B.Tech. II Semester Regular & Supplementary Examinations May 2016

Web Technologies

(Information Technology)

Max. Marks: 70

Time: 03 Hours

Answer any five questions
All Questions carry equal marks (14 Marks each)

1.	a)	What are the different types of lists in HTML? Explain how these lists are created in HTML with suitable examples.	7M
	b)	Explain how a basic table is created using HTML tags with attributes of rowspan and colspan.	7M
2.	a)	Describe the primitive data types that Javascript uses.	7M
	b)	Write a script that reads a mobile no and determines and displays whether it is valid mobile no or not.	7M
3.	a)	What is XML? Explain the various features of XML.	7M
	b)	Design an XML schema for hospital information management. Include every feature available with schema.	7M
4.	a)	What is a BeanBox? Write about the BeanBox.	7M
	b)	Demonstrate with a suitable example the connecting of beans with events in the BeanBox.	7M
5.		Explain installation process of tomcat server	14M
6.	a)	Explain the lifecycle of JSP.	7M
	b)	Discuss the JSP standard actions.	7M
7.		Create a JSP to check the status of a bus ticket reservation from the server database. Status will be marked with a character- R- Reserved, W-waiting, C-cancelled.	14M
8.	a)	How to authenticate the user in PHP? Explain about date and time with examples	7M
	b)	Briefly Explain Environment Variables.	7M