

Code : 1G461

R11

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: RAJAMPET
(AUTONOMOUS)

III B.Tech. II Semester Regular Examinations, June 2014

Computer Graphics
(*Information Technology*)

Time: 3 hours

Max Marks: 70

Answer any FIVE of the following
All questions carry equal marks (14 Marks each)

* * * * *

1. a) Explain Random scan systems in detail. 7M
b) Explain the limitations of SRGP. 7M
2. a) Explain flood-fill algorithm. 7M
b) Explain the character generation techniques. 7M
3. a) Briefly explain the basic transformation techniques. 7M
b) Explain homogeneous coordinates with an example. 7M
4. a) Discuss viewing functions with an example. 7M
b) Explain the Cohen-Sutherland line clipping algorithm. 7M
5. a) Determine the blending functions for uniform periodic B-spline curve for $d=6$. 7M
b) Explain Ambient light. 7M
6. a) Explain 3-D composite transformation. 7M
b) Explain 3-D viewing pipeline. 7M
7. a) Illustrate the procedure for implementing area-subdivision method. 7M
b) Explain the depth-buffer algorithm for hidden surface removal. 7M
8. a) What is raster animation? Explain it. 7M
b) Explain key frame systems. 7M

Code : 1G462

R11

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: RAJAMPET
(AUTONOMOUS)

III B.Tech. II Semester Regular Examinations, June 2014

Data Warehousing and Mining
(Information Technology)

Time: 3 hours

Max Marks: 70

Answer any FIVE of the following
All questions carry equal marks (14 Marks each)

* * * * *

1. a) Explain the basic Data Mining tasks 7M
b) Discuss about the different types of Data Attributes and Measurements 7M
2. a) Discuss the similarity measures for Binary Data. 7M
b) Explain about the similarity and dissimilarity between Simple Attributes 7M
3. a) Compare the OLTP and OLAP Systems 7M
b) Write a brief notes on Data Warehouse Modeling 7M
4. a) How to evaluate the performance of a classifier? Explain the Holdout Method 7M
b) Write and explain any one Algorithm for Decision Tree Induction. 7M
5. **Write short notes on**
* a) Naïve Bayesian Classification 7M
b) Bayesian Belief Network with an example 7M
6. a) Discuss about FP-Growth approach with an example 7M
b) How to improve the Efficiency of Apriori Algorithm, explain 7M
7. a) Write and discuss about K-Means Algorithm 7M
b) Discuss about the different types of Clustering 7M
8. **Write detail notes on**
a) DBSCAN Algorithm 7M
b) Agglomerative and Divisive Hierarchical Clustering 7M

Code : 1G463

R11

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: RAJAMPET
(AUTONOMOUS)

III B.Tech. II Semester Regular Examinations, June 2014
Human Computer Interaction
(*Informaiton Technology*)

Time: 3 hours

Max Marks: 70

Answer any FIVE of the following
All questions carry equal marks (14 Marks each)

* * * * *

- | | | |
|-------|----------------------------------------------------------------------------------|-----|
| 1. a) | Briefly discuss the impact of inefficient screen design on processing time? | 07M |
| b) | Write about chronological history of GUI? | 07M |
| 2. a) | What are the characteristics that direct manipulations should possess? | 07M |
| b) | Briefly discuss about advantages and disadvantages of graphical systems? | 07M |
| 3. | Explain in detail about the understanding of business functions? | 14M |
| 4. a) | Discuss about screen navigation flow for good screen design? | 07M |
| b) | Explain about technological considerations in interface design? | 07M |
| 5. | What are the major components of web navigation system? | 14M |
| 6. a) | Write about multimedia? | 07M |
| b) | Briefly discuss about various user problems while using colors? | 07M |
| 7. | Briefly discuss about various specification methods? | 14M |
| 8. | What is the need of interaction devices? What are the various types of mouseses? | 14M |

Code : 1G164

R11

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: RAJAMPET
(AUTONOMOUS)

III B.Tech. II Semester Regular Examinations, June 2014

Object Oriented Analysis and Design

(Common to CSE & IT)

Time: 3 hours

Max Marks: 70

*Answer any FIVE of the following
All questions carry equal marks (14 Marks each)*

* * * * *

1. a) What is the importance of modeling? Explain about principals of modeling. 7M
b) Explain the artifacts of UML. 7M
2. a) What are the important aspects to be considered to model the vocabulary of a system? 7M
b) Define class. Draw a class diagram for a banking system. 7M
3. Explain about: i.) Dependency ii.) Realization iii.) Association
iv.) Generalization 4 x 3.5=14M
4. a) How collaboration diagrams differ from sequence diagram. How collaboration diagrams are useful in building a system 7M
b) What are the important elements of sequence diagram? Draw a sequence diagram for banking system. 7M
5. a) Write about the important components of use case diagrams. 7M
b) How do you use usecase diagram for forward engineering and reverse engineering. 7M
6. a) Define a state. What are the important parts of a state? 7M
b) Draw the sequential sub states for an EVM machine (electronic voting mechine). 7M
7. a) Explain the purpose of component diagram and also explain the distribution of artifacts using component diagram 7M
b) Explain about Deployment diagram components and How it is useful in the modeling of an Embedded system 7M
8. Draw Object & Sequence diagrams for an ATM system. 14

Code : 1G464

**ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: RAJAMPET
(AUTONOMOUS)**

III B.Tech. II Semester Regular Examinations, June 2014

Software Testing Methodologies

(Information Technology)

Time: 3 hours

Max Marks: 70

*Answer any FIVE of the following
All questions carry equal marks (14 Marks each)*

* * * * *

1. Write a s short note on
 - a) Testing Vs Debugging
 - b) Modularity Vs Efficiency
2. Write the heuristic procedures for sensitizing paths?
3. Write a brief note on path selection, sensitization and instrumentation?
4. Explain the domain bugs and how to test for them?
5. Write the applications of paths and discuss the distribution laws?
6. Discuss KV charts with limitations?
7. Explain the state testing with limitations and Extensions?
8. Explain the partial ordering relations?

Code : 1G465

**ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: RAJAMPET
(AUTONOMOUS)**

III B.Tech. II Semester Regular Examinations, June 2014

Web Technologies
(Information Technology)

Time: 3 hours

Max Marks: 70

*Answer any FIVE of the following
All questions carry equal marks (14 Marks each)*

* * * * *

1. a) Create a simple HTML page which demonstrates the use of the three types of list. Try adding a definition list which uses unordered list to define terms 7M
- b) How many ways styles can be applied to HTML page? Explain any two with an example 7M
2. a) Compare and contrast HTML and DHTML 6M
- b) List out the Date object functions. Write a JavaScript program to display the current date and time in both GMT and locale forms 8M
3. a) Explain the various types of XML Schema data types 8M
- b) Differences between DOM and SAX parsers 6M
4. a) Define JavaBean? Write about the advantages of JavaBeans 7M
- b) Create a JavaBean which gives the exchange value of INR(Indian Rupees) into equivalent American/Canadian/Australian Dollar value 7M
5. Explain about javax.servlet and javax.servlet.http packages (servlet API) 14M
6. How to install Apache Tomcat Server in windows environment and how to testing Tomcat Server 14M
7. a) How application data can be shared in JSP? Explain 7M
- b) Define JSP? How to configure the deployment descriptor for error pages in JSP 7M
8. What is AJAX? How AJAX works? Explain about XMLHttpRequest object with an example program? 14M
