**ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: RAJAMPET**
**(AUTONOMOUS)**
**M.Tech. II-Semester** *Regular Examinations, November 2012*
### *Cloud Computing*
( *CSE* )

Max. Marks: 60                                                   Time: 03 Hours
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**Answer** *any five* **questions**
**All Questions carry equal marks (12 Marks each)**

1. a. What are the objectives of Virtualization?                                          6M

   b. Differentiate cloud computing and utility computing? Explain the services of cloud     6M
   computing?

2. a. Explain about:                                                                      6M

      i. VM ware
      ii. Obuntu

   b. What are the various virtualization technologies? Explain each.                     6M

3. a. What are the benefits of Intel virtualization?                                       6M

   b. Explain about virtualization software's.                                           6M

4. a. Explain about logical unit identifier (LUN)                                          6M

   b. Explain about:                                                                      6M

      i. In band approach
      ii. Out of Band approach

5. a. Explain a scenario for using a cloud. Justify                                        6M

   b. Is really cloud computing is for the benefit? Why it is termed as utility computing?    6M

6. What are various cloud models that exist? Draw a neat sketch and explain.               12M

7. a. Explain with a neat sketch about the concept of a firewall rule in the Amazon cloud.   6M

   b. How Intrusion will be detected in cloud?                                            6M

8. a. Assuming unlimited budget and capabilities, how do you focus on disaster recovery     6M
   planning

   b. Explain various steps that are involved in Disaster Management.                     6M

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**ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: RAJAMPET**
**(AUTONOMOUS)**
**M.Tech. II-Semester** *Regular Examinations, November 2012*
*Data warehousing and Mining*
( *CSE* )

Max. Marks: 60                                                  Time: 03 Hours
********
Answer *any five* questions
All Questions carry equal marks (12 Marks each)

| | | | |
|---|---|---|---|
| 1. | a. | Define data mining? What are the major issues in data mining? | 6M |
| | b. | What is data integration and transformation? Discuss? | 6M |
| 2. | | Explain data cube technology? Data cube computation? | 12M |
| 3. | a. | What are the data mining primitives? Briefly discuss? | 6M |
| | b. | How to design graphical user interfaces of data mining systems? | 6M |
| 4. | a. | Explain about data mining class comparisons? | 6M |
| | b. | Write short notes on analysis of attribute relevance in mining? | 6M |
| 5. | a. | Explain about single dimensional Boolean association rules? | 6M |
| | b. | Discuss Mining Multilevel Association Rules from Transaction Databases? | 6M |
| 6. | a. | What are issues regarding classification and prediction, classification by decision tree induction? | 9M |
| | b. | Write short notes on Classifier Accuracy. | 3M |
| 7. | | Compare and contrast between density-based methods, grid-based methods, model-based clustering methods? | 12M |
| 8. | | Write a short notes on | 12M |

a) Mining in Text data bases

b) social impact of data mining

c)mining in multimedia data bases

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Code : *1P3124*

**ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: RAJAMPET**
**(AUTONOMOUS)**
**M.Tech. II-Semester** *Regular Examinations, November 2012*
*DISTRIBUTED OPERATING SYSTEMS*
*(Computer Science and Engineering)*
*(For Students Admitted in 2011-2012)*

Max. Marks: 60                                                                 Time: 03 Hours

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**Answer any five full questions**
**All Questions carry equal marks (12 Marks each)**

| | | | |
|---|---|---|---|
| 1. | | Explain in detail the goals and design issues of a distributed systems? | 12M |
| 2. | a. | What is a "stub"? How are stubs generated? Explain how the use of stubs helps in making an RPC mechanism transparent. | 6M |
| | b. | List out the design issues of group communication | 6M |
| 3. | | Describe the following elections algorithms | |
| | a. | The Bully Algorithm | 6M |
| | b. | A Ring Algorithm | 6M |
| 4. | | List and explain various system models in distributed systems? | 12M |
| 5. | a. | Explain the Distributed File System in distributed operating system | 6M |
| | b. | Describe sun's Network File system | 6M |
| 6. | | Write a note on: | |
| | a. | NUMA multiprocessors | 6M |
| | b. | Switched multiprocessors | 6M |
| 7. | a. | Give the relative advantages and disadvantages of sequential and release consistency models? | 6M |
| | b. | Write a note on distributed shared memory with suitable diagram? | 6M |
| 8. | a. | Explain the process management in CHORUS? | 8M |
| | b. | Explain the kernel structure of CHORUS? | 4M |

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# ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: RAJAMPET
## (AUTONOMOUS)
### M.Tech. II-Semester *Regular Examinations, November 2012*
## *Mobile Computing*
### ( *CSE* )

Max. Marks: 60                                                    Time: 03 Hours

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### Answer *any five* questions
### All Questions carry equal marks (12 Marks each)

1.  a.  Define Mobile Computing. List and Explain the characteristics of a communication device.                                                                      5M

    b.  Explain briefly about Architecture reference model of a Mobile Computer with a neat diagram                                                                   7 M

2.  a.  Explain the various problems of wireless transmission with a neat diagram.    5M

    b.  Explain the different Mobile Phone Technologies.                              7M

3.  a.  Explain how the packet delivery takes place to and from the mobile node with a neat diagram                                                                   4M

    b.  Define DHCP and Explain its working?                                         8M

4.  a.  Explain the working of Indirect TCP?                                          8M

    b.  Explain about Fast retransmit/Fast Recovery in TCP                            4M

5.  a.  Write short notes on                                                          5M
        i.   Cache access protocols
        ii.  Prefetching

    b.  Define client-server computing and Explain any one client-server architecture with neat diagram                                                               7M

6.  a.  Differentiate between push based mechanism and pull based mechanism of data dissemination                                                                    6M

    b.  Explain hybrid push-pull based data delivery mechanism.                       6M

7.  a.  Define and Explain about the mobile adhoc networks (MANETS).                  4M

    b.  Explain the various routing protocols for MANETS.                            8M

8.  a.  Define WAP? Explain its characteristics.                                      6M

    b.  Explain security & network issues of Bluetooth.                              6M

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Code :*1P3123*

## ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: RAJAMPET
### (AUTONOMOUS)
**M.Tech. II-Semester** *Regular Examinations, November 2012*
### Open Systems for Web Technologies
### ( CSE)

**Max. Marks: 60**                          **Time: 03 Hours**

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### Answer *any five* questions
### All Questions carry equal marks (12 Marks each)

1. a. What is a frame? What is the advantage of using a frame? Clearly explain the creation of frames with an example.    6M

   b. Why You need CSS? Explain how can you include different types of CSS in Different ways?    6M

2. a. Write a java script to validate a form consisting of a username. Also navigate to another web page after validation?    8M

   b. Write about String Objects of Java Script?    4M

3. a. Write a sample DTD for Engineering Institute with any four elements and write an XML code to include this DTD in XML File?    6M

   b. How can You Present an XML File using XSLT? Explain with example?    6M

4. a. What is a Cookie? Give the information that is saved for each cookie on the user's machine and Develop a servlet that illustrates usage of cookies?    8M

   b. Explain HttpSession Interface?    4M

5. a. Explain the components of JSP with simple Example?    6M

   b. Explain the forward tag of a JSP with example?    6M

6. a. Define JAVA BEAN? How to deploy the Java Bean in a JSP explain with Example?    6M

   b. How can you Share the data Between multiple JSP pages explain with example?    6M

7. a. Write Steps and sample program of a Servlet which will connect to a database using JDBC?    8M

   b. Explain about JAVA.Sql.DriverManager Class?    4M

8. a. What is Mean By CMS? What are the need and Benefits of CMS?    6M

   b. How can You Execute a ASP page explain with Example?    6M

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Code : 1P3122

# ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: RAJAMPET
## (AUTONOMOUS)
### M.Tech. II-Semester *Regular Examinations, November 2012*
### *Software Architecture and Design Patterns*
#### ( CSE )

Max. Marks: 60

Time: 03 Hours

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### Answer *any five* questions
### All Questions carry equal marks (12 Marks each)

| | | | |
|---|---|---|---|
| 1. | a. | What are design patterns? Give examples. | 4M |
| | b. | Explain how to select a design pattern for design problems? | 8M |
| 2. | a. | Describe about Abstract parent class with example? | 8M |
| | b. | Distinguish between Private method and Abstract method patterns? | 4M |
| 3. | a. | What are creational patterns? Give its applications. | 4M |
| | b. | Discuss about Factory method pattern with example? | 8M |
| 4. | a. | Explain composite pattern with an example? | 8M |
| | b. | What are the uses of Composite patterns? | 4M |
| 5. | a. | Distinguish between Proxy, Virtual proxy and Counting Proxy patterns. | 6M |
| | b. | Describe about Adapter design pattern? | 6M |
| 6. | a. | Write short notes on the following patterns | 12M |
| | | i) Mediator | |
| | | ii) Memento | |
| | | iii) Observer | |
| 7. | a. | Explain about Common attribute registry pattern with example. | 8M |
| | b. | What are the applications of Template pattern? | 4M |
| 8. | a. | Explain about Guarded suspension pattern? | 6M |
| | b. | Briefly explain how Consistent lock order is used as concurrency pattern. | 6M |

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