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

MCA V Semester Regular Examinations, December 2013 Software Architecture

Time: 3 hours

Max Marks: 60

Answer any FIVE of the following
All questions carry equal marks (12 Marks each)

| 1. | a) | What activities are involved in creating Software Architecture in detail? | 6M |
|----|------|--|-----|
| | b) | List all process recommendations to make a Good Architecture. | 6M |
| 2. | | Explain the architecture styles based on | 12M |
| | | i. Data Abstraction and Object - Oriented Organization. | |
| | | ii. Event – Based implicit invocation. | |
| 3. | | Explain the different Variants on the two Architectural forms Dataflow Systems and Repositories. | 12M |
| 4. | a) | List all the initial set of original requirements for the Web. | 6M |
| | b) | Describe how the web achieves its initial Quality goals. | 6M |
| 5. | | With neat diagrams, depict the dynamic behavior of Pipes and Filters Pattern | 12M |
| 6. | a) | Explain how to formalize an Architectural style. | 6M |
| | b) | Explain the value of Architectural formalism | 6M |
| 7. | a) | Write the applications of ADL's in System Development. | 6M |
| | b) . | What are attributes to evaluate ADL's? Explain. | 6M |
| 8. | | Write short notes on Software Product Line and Explain what makes Software Product Lines work | 12M |

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

MCA V Semester Regular Examinations, December 2013 UML and Design Patterns

Time: 3 hours

Max Marks: 60

Answer any FIVE of the following
All questions carry equal marks (12 Marks each)

| 1. | a) Discuss about Packages | 6M |
|----|---|----------------------------------|
| | b) Discuss about Object Diagrams | 6M |
| 2. | a) Write short notes on Use Case Diagrams | 6M |
| | b) Explain about Collaboration Diagrams | 6M |
| 3. | a) What is State and Transition? Discuss | 6M |
| | b) Discuss about Processes and Threads | 6M |
| 4. | a) Discuss about Components and Interfaces | 6M |
| | b) Discuss the role of Deployment Diagrams in OOAD | 6M |
| 5. | Discuss in detail the way Design Patterns solve Design Problems | 12M |
| 6. | Explain the following | Section description and the con- |
| | a) Structure of Abstract Factory | 6M |
| | b) Motivation for Builder | 6M |
| 7. | a) Discuss the Motivation and Application of Composite Pattern | 6M |
| | b) Discuss about Interpreter Pattern in detail | 6M |
| 8. | Write short notes on | |
| | a) Observer Pattern | 6M |
| | b) Template Method | 6M |

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

MCA V Semester Regular Examinations, December 2013 .Net Technologies

Time: 3 hours

Max Marks: 60

Answer any FIVE of the following
All questions carry equal marks (12 Marks each)

| 1. | a) | Explain .NET Frame work in detail | 6M |
|----|----|--|----|
| | b) | Discuss Assemblies & Manifest | 6M |
| 2. | a) | Explain about C# core language features | 6M |
| | b) | Discuss MSIL Programming | 6M |
| 3. | a) | What ate various Visual basic .NET modules? | 6M |
| | b) | Discuss Object Serialization | 6M |
| 4. | a) | Discuss the architecture of ADO.NET | 6M |
| | b) | Explain the concept: Data Adapter | 6M |
| 5. | a) | Explain ASP.NET session | 6M |
| | b) | Discuss about Cookies | 6M |
| 6. | a) | Explain about XML DOM object model | 6M |
| | b) | Discuss briefly Data validation | 6M |
| 7. | a) | What are web services protocols & standards | 6M |
| | b) | Write the steps involved in writing a simple web service | 6M |
| 8. | a) | Explain Emulators. | 6M |
| | b) | Discuss the concept Lists | 6M |

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

MCA V Semester Regular Examinations, December 2013 Cloud Computing

Time: 3 hours

Max Marks: 60

Answer any FIVE of the following All questions carry equal marks (12 Marks each)

| 1. | a) | List the services of cloud computing. Explain about the Network as a service and Communication as a service models. | 8M |
|------|----|---|-----|
| 2 | b) | Differentiate public and private cloud types over a network. | 4M |
| 2. | a) | Draw and explain the cloud architecture which provides service "platform as a service" in which clients does not have to allocate hardware and software resources manually. | 8M |
| | b) | State and Explain the cloud feature "Multitenancy" in detail. | 4M |
| 3. | | What are the cloud management challenges need to handle when cloud based applications are deploying as open source in the public environment. Explain each challenge with the solution. | 12M |
| 4. a | a) | Write a procedure for cloud based collaboration of group projects for multinational companies. | 6M |
| | b) | How the centralized email communication system is collaborated by cloud computing. | 6M |
| 5. | a) | Explain the cloud collaboration on online scheduling and planning for the task management. | 6M |
| | b) | Write about cloud collaboration on word processing and spreadsheets. | 6M |
| 6. | | How to evaluate various web services provided by the cloud like emails, chatting, video conferences etc. | 12M |
| 7. | | Create cloud application which establishes the instant communication among the people through blogs or wikis. | 12M |
| 8. | | Explore the following applications by using IaaS provided by cloud. | 12M |
| | | a. on line photo editing applications | |
| | | b. on line book marking services by using | |

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MCA V Semester Regular Examinations, December 2013 Middle ware Technologies

Time: 3 hours

Max Marks: 60

Answer any FIVE of the following All questions carry equal marks (12 Marks each)

| 1. | a) | With a neat diagram describe the various building blocks of client-server architecture in detail. | 8M |
|----|----|---|-----|
| | b) | Classify the clients based on UI. | 4M |
| 2. | a) | List and describe the problems in the traditional web applications. | 6M |
| | b) | What are the services provided by browser to applets? Explain. | 6M |
| 3. | a) | Explain how RMI works. | 8M |
| | b) | Write short notes on the Object Web. | 4M |
| 4. | | Write notes on the following: | 12M |
| | | i. CGI | |
| | | ii. HTML forms | |
| | | iii. Java ORB | |
| 5. | a) | Make a comparison of static and dynamic client and server invocations. | 6M |
| | b) | Give a note on ORBlets with applets. | 6M |
| 6. | a) | Explain CORBA initialization protocol in detail. | 6M |
| | b) | Discuss the structure of CORBA IDL. | 6M |
| 7. | a) | Explain event delegation model for JAVA Beans. | 6M |
| | b) | Write notes on introspection of Java Beans. | 6M |
| 8. | a) | Describe the services provided by EJB container. | 6M |
| | b) | Explain how Enterprise JAVA Beans are related to CORBA OTM's. | 6M |

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MCA V Semester Regular Examinations, December 2013 Simulation and Modeling

Time: 3 hours

Max Marks: 60

Answer any FIVE of the following
All questions carry equal marks (12 Marks each)

| 1. | a) | What is meant by System Modeling? What are its advantages and disadvantages? | 6M |
|----|---|--|--------------|
| | b) | Describe the types of System Study. | 6M |
| 2. | a) | Define System Simulation? Explain the need and limitations of it. | 6M |
| | b) | Explain about Distributed log models and Cobweb models. | 6M |
| 3. | a) | Describe the role of Analog computers and Hybrid computers in the Continuous | 6M |
| - | 104107441111111111111111111111111111111 | system models. | and a second |
| | b) | Briefly explain about CSSLs and CSMP III. | 6M |
| 4. | a) | Describe about Monte-Carlo Techniques. | 6M |
| | b) | The Birth rate of a country is adding 100,000 people a year to an initial population of 5,000,000. The average life expectancy is 65 years. It is estimated that one ton of coal is consumed per annum for each individual. Draw a diagram showing how the country | 6M |
| | | resources of 500,000,000 tons are being depleted. | |
| 5. | | Explain the following: | |
| | | a) Congestion in Systems. | 4M |
| | | b) Importance of Queuing and Measures of queues. | 4M |
| | - | c) Service Times. | 4M |
| 6. | | Describe in detail about Simulation of Telephone system. | 12M |
| 7. | | Write a GPSS program for simulation of a Super Market and also define various blocks used. | 12M |
| 8 | a) | What are Simultaneous and Conditional events? Explain. | 6M |
| | b) | Explain the execution of Simulation algorithm in GPSS | 6M |