ANDHRA UNIVERSSITY

SCHOOL OF DISTANCE EDUCATION

ASSIGNMENT QUESTION PAPER

MCA (Third Year)

INFORMATION SYSTEMS CONTROL AND AUDIT

ASSIGNMENT-1

Marks 20

Answer All questions. All question carry equal marks.

1. What is hierarchal structure of system of system and subsystem?
2. What is internal control? Explain the components of internal control.
3. Discuss various issues in data entry screen design.
4. Explain the model of factors affecting the information system effectiveness.
5. Explain about communication controls and processing controls.

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ASSIGNMENT QUESTION PAPER

MCA (Third Year)

INFORMATION SYSTEMS CONTROL AND AUDIT

ASSIGNMENT-2

Marks 20

Answer All questions. All question carry equal marks.

1. Describe various data code controls..
2. Explain different phases of system development process and the objectives of each phase.
3. State and explain about various programming management controls.
4. Explain about different concurrent auditing techniques.
5. State and explain different phases of programming development life cycle.

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ASSIGNMENT QUESTION PAPER

MCA (Third Year)

NETWORK SECURITY

ASSIGNMENT-1

Marks 20

Answer All questions. All question carry equal marks.

1. Write the different approaches to attack a conventional encryption scheme. What security mechanisms are suggested to counter attack active attacks?
2. Explain DES algorithms with suitable examples. Discuss its advantages and limitations.
3. what are the environmental shortcomings of Kerberos4? How does Kerberos 5 address them?
4. Briefly explain the Diffie Hellman Key Exchange algorithm?
5. What steps sending PGP (pretty good privacy) perform? Write PGP message generation.

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ASSIGNMENT QUESTION PAPER

MCA (Third Year)

NETWORK SECURITY

ASSIGNMENT-2

Marks 20

Answer All questions. All question carry equal marks.

1. What is digital signature? Explain its use with the help of example.
2. Explain the round transformation of IDEA. Also explain the key scheduling of IDEA.
3. What are the security services provided by digital signature? Write and explain the Digital Signature Algorithm.
4. Briefly explain about public key infrastructures (PKI) trust models.
5. Describe the security services to electronic mail.

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ASSIGNMENT QUESTION PAPER

MCA (Third Year)

OBJECT ORIENTED SOFTWARE ENGINEERING

ASSIGNMENT-1

Marks 20

Answer All questions. All question carry equal marks.

1. Describe different project organizational activities.
2. write about requirements analysis document (RAD).
3. state and explain the Liskov substitution principal.
4. discuss about class diagrams an interaction diagrams with suitable example.
5. Explain about synchronous and asynchronous Communication mechanism in project communication.

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ASSIGNMENT QUESTION PAPER

MCA (Third Year)

OBJECT ORIENTED SOFTWARE ENGINEERING

ASSIGNMENT-2

Marks 20

Answer All questions. All question carry equal marks.

1. Briefly explain the following software engineering concepts:
   i)   Systems and models   ii) Activities, Tasks, and Resources.
2. Explain about entity objects, boundary objects and control objects with example.
3. what is design pattern? Explain considerations for Selecting Design Patterns and give its components.
4. Explain about regression testing and model based testing suitable example.
5. Discuss various management Issues related to configuration management.

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ASSIGNMENT QUESTION PAPER

MCA (Third Year)

EMBEDDED SYSTEMS

ASSIGNMENT-1

Marks 20

Answer All questions. All question carry equal marks.

1. Draw and explain that typical embedded system architecture?
2. Explain the role of decoders in embedded hardware development. Draw the circuit diagram for interacting a 3-bit binary decoder with 8051.
3. Explain the boundary scan-based hardware debugging in detail.
4. Explain the important feature of compilers and linkers that are relevant to embedded system?
5. Explain that different embedded firmware design approaches in detail. okay

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ASSIGNMENT QUESTION PAPER

MCA (Third Year)

EMBEDDED SYSTEMS

ASSIGNMENT-2

Marks 20

Answer All questions. All question carry equal marks.

1. Illustrate an application specific embedded system with suitable example?
2. Explain the role of watchdog timer in embedded system with suitable diagram.
3. What is ROM emulator? Explain ICE based debugging in detail.
4. Describe the translation tools used in an embedded system.
5. draw and explain the integrated embedded system development environment.

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SCHOOL OF DISTANCE EDUCATION

ASSIGNMENT QUESTION PAPER

MCA (Third Year)

DATA WARE HOUSING AND DATA MINING

ASSIGNMENT-1

Marks 20

Answer All questions. All question carry equal marks.

1. What are the various elements of typical the data mining architecture?
2. What is attribute oriented induction and how it is implemented.
3. What is meant by dimensionality reduction? Discuss various methods to perform dimensionality reduction.
4. What is data integration? Describe various issues that have to be addressed during data integration.
5. Explain about DBSCAN Clustering algorithm.

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SCHOOL OF DISTANCE EDUCATION

ASSIGNMENT QUESTION PAPER

MCA (Third Year)

DATA WARE HOUSING AND DATA MINING

ASSIGNMENT-2

Marks 20

Answer All questions. All question carry equal marks.

1. write about major issues in data mining.
2. describe the differences between start schema and snowflake schema?
3. Write short notes on data mining query language.
4. Illustrate K-Nearest neighbour classifier with example.
5. Discuss how information gain helps in building Decision tree.