

ANDHRA UNIVERSITY
SCHOOL OF DISTANCE EDUCATION
ASSIGNMENT QUESTION PAPER 2020-2021
MCA (Third Year)
INFORMATION SYSTEMS CONTROL AND AUDIT

ASSIGNMENT-1

Marks 20

Answer All questions. All question carry equal marks.

1. Explain different types of audit procedures.
2. Explain the measures of Asset safe generating and data integrity.
3. What characteristics of computer systems after lead to high costs being incurred because of computer system error? Discuss.
4. Explain the nature of Public key cryptography.
5. Why should application programs that update monetary data items in the database maintain a suspense account? Explain.

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INFORMATION SYSTEMS CONTROL AND AUDIT

ASSIGNMENT-2

Marks 20

Answer All questions. All question carry equal marks.

1. Discuss about the systems development life cycle for system development process.
2. What are the guidelines used for source document design? Discuss with examples.
3. Describe about the components of internal control that should be established in an organization.
4. What is the sequence of steps most likely will be used in an efficiency evaluation study?
5. Explain why encryption is useful as a means of protecting data passing over private communication lines.

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ASSIGNMENT QUESTION PAPER 2020-2021
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NETWORK SECURITY

ASSIGNMENT-1

Marks 20

Answer All questions. All question carry equal marks.

1. Explain diffie Hellmen exchange algorithm. Write its advantages.
2. Discuss about the block cipher modes of operation.
3. Explain the principles of public key crypto systems.
4. Explain in detail about pretty good privacy.
5. Explain briefly about Kerberos and its versions.

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NETWORK SECURITY

ASSIGNMENT-2

Marks 20

Answer All questions. All question carry equal marks.

1. Describe in detail what is symmetric cipher model.
2. Explain in detail about the evaluation criteria for AES.
3. Describe about Fermat's Euler's Theorem.
4. Compare the different between MD4 and MD5. To what extent do you think that MD5 is stronger than MD4 and why?
5. What happens if a K value used in creating a DSA signature is compromised?

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ASSIGNMENT QUESTION PAPER 2020-2021
MCA (Third Year)
OBJECT ORIENTED SOFTWARE ENGINEERING

ASSIGNMENT-1

Marks 20

Answer All questions. All question carry equal marks.

1. Describe the technical developmental and management activities of software engineering. Elaborate each activity in detail.
2. What are the activities of requirements elicitation? Explain.
3. Define software architecture and describe any four different architecture that are popular.
4. What are the activities of system design and object design? Explain them with suitable examples.
5. Explain the basic path testing techniques with example.

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OBJECT ORIENTED SOFTWARE ENGINEERING

ASSIGNMENT-2

Marks 20

Answer All questions. All question carry equal marks.

1. Write the structure of SRS document and explain the importance of each section and sub sections.
2. Discuss about different communication models and mechanism that can be used with in a software development project.
3. Summaries different black box testing strategies.
4. What is Regression Testing? Explain with example.
5. Differentiate between coupling and cohesion.

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ASSIGNMENT QUESTION PAPER 2020-2021

MCA (Third Year)

EMBEDDED SYSTEMS

ASSIGNMENT-1

Marks 20

Answer All questions. All question carry equal marks.

1. With suitable illustration, Explain the design issues of developing an embedded system.
2. Explain shared- data problem.
3. Explain the memory mapping at I/O address space in a microprocessor system with a neat block diagram.
4. How code space is saved in a system? Explain.
5. Describe about tasks and data in RTOS.

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EMBEDDED SYSTEMS

ASSIGNMENT-2

Marks 20

Answer All questions. All question carry equal marks.

1. Describe bus handshaking with a wait signal.
2. What is interrupt latency? Explain.
3. How the tasks are divided for your systems working in RTOS? Discuss.
4. Discuss function – queue –scheduling Architecture.
5. Write the significance of locator maps.

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ASSIGNMENT QUESTION PAPER 2020-2021
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 different components of data warehouse? Explain with neat diagram.
2. State and explain the differences between OLAP and OLTP.
3. Explain the functional components of Datamining Graphical user interface.
4. Explain the process of elementary attribute oriented induction technique.
5. Distinguish between the partition clustering and hierarchical clustering.

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DATA WARE HOUSING AND DATA MINING

ASSIGNMENT-2

Marks 20

Answer All questions. All question carry equal marks.

1. Discuss about different data mining primitives.
2. How computations can be performed efficiently on data cases? Explain.
3. What are the various star schema keys? Explain with example.
4. Explain CURE, DBSCAN clustering algorithms.
5. Describe the types of data that occur in cluster analysis.