

UNIVERSITY CENTRE FOR DISTANCE LEARNING (UCDL)
CHAUDHARY DEVI LAL UNIVERSITY, SIRSA
(From the academic session 2020-21)
MCA : SEMESTER-III
SUBJECT: System Simulation
(MCA-31)
Assignment-I

Note: Attempt any five questions in all. First question is compulsory. All questions carry equal marks.

Max. Marks: 15

Q1. A) What is system Simulation?

B) Modeling

C) Simulation Software

Unit 1

Q2 what is Simulation? Define type of simulation

Or

Advantage and disadvantage of simulation study

Unit 2

Q.3 Explain Various methods of generating random variables

Or

Define simulation of single server system

Unit 3

Q.4 Basic concept of queuing theory.

Or

Discus general queuing systems

Unit 4

Q.5 Factors in selection of discrete system simulation languages

Or

Explain Simulation of computer systems.

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MCA SEMESTER-III

**SUBJECT: System Simulation
(MCA-31)
Assignment-II**

Note: Attempt any five questions in all. First question is compulsory. All questions carry equal marks.

Max. Marks: 15

- Q1.a) Explain General system theory
b) Pseudo random numbers
c) SIMSCRIPT

Unit 1

Q2. Simulation as a decision making tool

Or

Steps in simulation study

Unit 2

Q.3 Discuss discrete system simulation language

Or

Explain the classification of discrete system simulation language

Unit 3

Q.4 Define time flow mechanism

Or

Short note on data collection and reduction

Unit 4

Q.5 Comparison and selection of simulation languages

Or

Explain GPSS, SIMULA

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MCA SEMESTER-III

SUBJECT: Computer Networks
(MCA-32)
Assignment-1

Note: Attempt any five questions in all. First question is compulsory. All questions carry equal marks.

Max. Marks: 15

- Q1.a) What is computer network
b) x.25
c) DQDB

Unit -1

Q2. ; OSI model and functions of its layers.

Or

Explain TCP/IP: Elements of Transport Protocols

Unit -2

Q3. Explain Transmission media – guided and wireless media

Or

Introduction to switching (circuit, message and packet)

Unit-3

Q4. Error control-error detection & correction

Or

What is Multiple Access Control Explain?

Unit-4

Q5. Principles of congestion control

Or

Discuss Centralized and distributed routing

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- Q1. a) UDP**
b) IP
c) ISDN

Unit-1

Q2. Discuss Various Categories of Networks - LAN, MAN, WAN

Or

Networks architecture: Concepts of protocols & services

Unit-2

Q3. Components of a data communication system.

Or

Discuss Multiplexing (frequency division and time division).

Unit-3

Q4. Framing and Error control: Framing techniques

Or

Explain Sliding Window protocols

Unit-4

Q5. Discuss Broadcast and multicast routing.

Or

Define Choke packets, load shading

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MCA SEMESTER-III

SUBJECT: Elective-I (Core Java)

(MCA-33)

Assignment-1

Note: Attempt any five questions in all. First question is compulsory. All questions carry equal marks. Max. Marks: 15

- Q1.a) JVM**
b) Define JDK
c) Define HTML Tags

Unit-1

Q 2. What is operator and types of operators in java.

or

Data types & types of Data types in java.

Unit-2

Q 3. What is constructor & types of constructor in java

or

Define string & vectors with example

Unit-3

Q 4. What is Exception handling

or

Write a note on stringBuilder in java.

Unit-4

Q5. Define applet lifecycle

or

Write a note on AWT classes

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MCA SEMESTER-III

SUBJECT: Elective-I (CORE JAVA)
(MCA-33)
Assignment-II

Note: Attempt any five questions in all. First question is compulsory. All questions carry equal marks. Max. Marks: 15

Q1.a) Scalar data types

- b) finalizer
- c) StringBuffer class

Unit-1

Q2. Define control structures in java

Or

Define running Java applications

Unit-2

Q3. Explain polymorphism with example

Or

Define visibility controls with example

Unit-3

Q4. Explain Immutable class

or

Creating your own exceptions.

Unit-4

Q5. What is AWT controls Layout Managers explain with example

or

Explain Tokenizes class

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MCA SEMESTER-III

SUBJECT: Elective-II(Computer Architecture and Parallel Processing)
(MCA-34)
Assignment-1

Note: Attempt any five questions in all. First question is compulsory. All questions carry equal marks. Max. Marks: 15

- Q1.a) Define Thread
b) VLIW
c) MIMD

Unit-1

2. Explain evolution of computer architecture

Or

Define types and levels of parallelism.

Unit-2

3. Define principles of pipelined instruction processing

Or

Note on collision free scheduling

Unit-3

4. Discuss in detail :-

- a. Superscalar pipeline design
b. TLB

Or

Explain interleaved memory organization

Unit-4

5. Note on switching networks-crossbar & multistage network

or

Define cache coherence protocol

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**SUBJECT: Elective-II(Computer Architecture and Parallel Processing)
(MCA-34)
Assignment-II**

Note: Attempt any five questions in all. First question is compulsory. All questions carry equal marks. Max. Marks: 15

- Q1.a) COMA
b) Loop scheduling
c) NUMA

Unit-1

- Q2.Explain classifications of parallel architectures,
Or

Define relationship between languages and parallel architectures.

Unit-2

- Q3. Explain linear pipeline clocking and timing control.
or

Define synchronous & asynchronous pipelining

Unit-3

- Q4.Memory Hierarchy Technology: Inclusion, coherence and locality
Or

Define cache addressing models

Unit-4

- Q5. Note hierarchical cache coherence protocol
Or

Define Cache coherence problem

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MCA SEMESTER-III

SUBJECT: Elective-III(Data Mining and Warehousing)
(MCA-35)
Assignment-1

Note: Attempt any five questions in all. First question is compulsory. All questions carry equal marks.

Max. Marks: 15

- Q1.a) OLAP
b) Data Mining
c) Cluster analysis

Unit-1

2. Define Classification of data mining
Or

Explain Data mining primitives

Unit-2

3. Difference between operational data base systems and data warehouse

Or

Discuss a Multidimensional Data Model

Unit-3

4. Define constraint-based association Mining

Or

Discuss Data mining multilevel association rules from transaction databases

Unit-4

- 5 Discuss Bayesian classification

Or

What is Cluster Analysis, Types of Data in Cluster Analysis

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MCA SEMESTER-III

**SUBJECT: Elective-III (Data Mining and Warehousing)
(MCA-35)
Assignment-II**

Note: Attempt any five questions in all. First question is compulsory. All questions carry equal marks. Max. Marks: 15

- Q1.a) Data Cleaning
b) Data Warehouse uses
c) Data reduction

Unit-1

2. Discuss importance of datamining

Or

Explain Data Integration and transformation

Unit-2

3. Discuss Data warehouse and OLAP Technology for data mining
Or
Architecture & Implementation of data mining

Unit-3

4. Discuss Association Rule Mining

Or

Explain multidimensional association rules from relational databases and data warehouses

Unit-4

5. Applications and Trends in Data Mining

Or

What is Cluster Analysis, Types of Data in Cluster Analysis,