

School of Computer Science

HOME / SPOT ASSIGNMENT

Programme Code No : 271

Programme Name : Master of Computer Applications Course Code & Name : MCA – 01 & Computer Fundamentals

Batch : AY 2019-20 (1st Year)

No. of Assignment : One Assignment for Each 2 Credits

Maximum CIA marks : 25 (Average of Total No. of Assignments)

<u>ASSIGNMENT – 1</u>

Max : 25 marks

Answer any one of the question not exceeding 1000 words

- 1. Discuss in detail about the elements of Combinational Circuits.
- 2. Discuss in detail about method of vector processing.
- 3. Explain briefly ALU Organization.

ASSIGNMENT - 2

Max: 25 marks

- 1. Write about the elements of sequential circuits.
- 2. Discuss in detail about Parallel Organization and RISC.
- 3. Explain in detail about method of vector processing.



School of Computer Science

HOME / SPOT ASSIGNMENT

Programme Code No : 271

Programme Name : Master of Computer Applications Course Code & Name : MCA – 02 & Introduction to Software

Batch : AY 2019-20 (1st Year)

No. of Assignment : One Assignment for Each 2 Credits

Maximum CIA marks : 25 (Average of Total No. of Assignments)

ASSIGNMENT – 1

Max: 25 marks

Answer any one of the question not exceeding 1000 words

- 1. Explain the Vi editor with various options.
- 2. Discuss in detail about trends in software development.
- 3. Explain the functions of memory management scheme.

ASSIGNMENT - 2

Max: 25 marks

- 1. Explain C–SCAN scheduling of device management.
- 2. Describe about file access permission in UNIX OS.
- 3. Explain different Environment variables in detail.



School of Computer Science

HOME / SPOT ASSIGNMENT

Programme Code No : 271

Programme Name : Master of Computer Applications

Course Code & Name : MCA – 03 & Data Structure through "C"

Batch : AY 2019-20 (1st Year)

No. of Assignment : One Assignment for Each 2 Credits

Maximum CIA marks : 25 (Average of Total No. of Assignments)

ASSIGNMENT – 1

Max: 25 marks

Answer any one of the question not exceeding 1000 words

- 1. With Syntax, Explain While() and Switch() in detail.
- 2. With suitable program, Explain the concept of call by value and call by reference in detail.
- 3. What are the Graph Traversals? Explain in detail.

ASSIGNMENT - 2

Max: 25 marks

- 1. Explain Sequential and Indexed File organizations in detail.
- 2. Write algorithm for inserting and deleting an item into stack.
- 3. With Syntax, Explain if() and Switch() in detail.



School of Computer Science

HOME / SPOT ASSIGNMENT

Programme Code No : 271

Programme Name : Master of Computer Applications

Course Code & Name : MCA – 04 & Elements of System Analysis and Design

Batch : AY 2019-20 (1st Year)

No.of Assignment : One Assignment for Each 2 Credits

Maximum CIA marks : 25 (Average of Total No. of Assignments)

ASSIGNMENT – 1

Max: 25 marks

Answer any one of the question not exceeding 1000 words

- 1. Explain about system development life cycle.
- 2. What is meant by knowledge based system? Explain briefly.
- 3. Explain in detail about the functions of project management.

ASSIGNMENT - 2

Max: 25 marks

- 1. What are the primary functions of a second-level managerial position in MIS division?
- 2. Explain HIPO in detail.
- 3. Discuss the overview of system implementation.



Chennai - 15 School of Computer Science

HOME / SPOT ASSIGNMENT

Programme Code No : 271

Programme Name : Master of Computer Applications

Course Code & Name : MCA – 05 & Introduction to Database Management

Systems

Batch : AY 2019-20 (1st Year)

No. of Assignment : One Assignment for Each 2 Credits

Maximum CIA marks : 25 (Average of Total No. of Assignments)

ASSIGNMENT – 1

Max: 25 marks

Answer any one of the question not exceeding 1000 words

- 1. Explain 1NF, 2NF and 3NF with suitable example.
- 2. What are the basic relational algebra operations?
- 3. Discuss the design of distributed databases.

ASSIGNMENT - 2

Max: 25 marks

- 1. Explain E-R diagram with example.
- 2. Discuss different types SQL commands.
- 3. Discuss in detail about different of methods of file organization.



Chennai - 15 School of Computer Science

HOME / SPOT ASSIGNMENT

Programme Code No : 271

Programme Name : Master of Computer Applications

Course Code & Name : MCA – 06 & Introduction to Computer Organisation

Batch : AY 2019-20 (1st Year)

No. of Assignment : One Assignment for Each 2 Credits

Maximum CIA marks : 25 (Average of Total No. of Assignments)

ASSIGNMENT – 1

Max: 25 marks

Answer any one of the question not exceeding 1000 words

- 1. Discuss about Error detection and Error correction codes.
- 2. Write shorts on I/O process.
- 3. Draw and explain Microcomputer Architecture.

ASSIGNMENT - 2

Max: 25 marks

- 1. Define gate. What are universal gates and explain?
- 2. Explain the following:
 - (a) Half adder
 - (b) Full adder
- 3. What is ALU? Explain one stage of ALU.



School of Computer Science

HOME / SPOT ASSIGNMENT

Programme Code No : 271

Programme Name : Master of Computer Applications

Course Code & Name : MCA – 07 & Introduction to Software Engineering

Batch : AY 2019-20 (1st Year)

No.of Assignment : One Assignment for Each 2 Credits

Maximum CIA marks : 25 (Average of Total No. of Assignments)

ASSIGNMENT – 1

Max: 25 marks

Answer any one of the question not exceeding 1000 words

- 1. Discuss about the circle generation algorithms.
- 2. Describe the viewing transformations.
- 3. Explain the Sutherland Hodgman algorithm.

ASSIGNMENT - 2

Max: 25 marks

- 1. Explain spiral and RAD process models.
- 2. Describe the significance of fourth generation techniques.
- 3. Explain the COCOMO estimation model.



Chennai - 15 School of Computer Science

HOME / SPOT ASSIGNMENT

Programme Code No : 271

Programme Name : Master of Computer Applications

Course Code & Name : MCA – 08 & Computer Oriented Numerical Methods

Batch : AY 2019-20 (1st Year)

No. of Assignment : One Assignment for Each 2 Credits

Maximum CIA marks : 25 (Average of Total No. of Assignments)

ASSIGNMENT – 1

Max: 25 marks

Answer any one of the question not exceeding 1000 words

1. Using the Gauss – Jordan method solve the following equations.

$$10x + y + z = 12$$

$$2x + 10y + z = 13$$

$$X+y+5z=7.$$

- 2. Find a root of the equation $x^3 4x 9 = 0$ correct to two decimal places by using the bisection method.
- 3. Given $\frac{dy}{dx} = x^3 + y$, y(0) = 2, compute y(0.2), by Runge Katta method of fourth order.

ASSIGNMENT - 2

Max: 25 marks

Answer any one of the question not exceeding 1000 words

1. Solve the following system of equation using Gauss–Elimination method.

$$2x + y + 4z = 12$$

$$8x - 3y + 2z = 20$$

$$4x + 11y - z = 33$$

- 2. Explain about the Simpson's 1/3 rule with example.
- 3. Using Newton's Formula, find y when x = 27, from the following data:
- X:
- 10
- 15
- 20
- 25
- 30

- Y:
- 35.4
- 32.2
- 29.1
- 26.0
- 23.1



Chennai - 15 School of Computer Science

HOME / SPOT ASSIGNMENT

Programme Code No : 271

Programme Name : Master of Computer Applications

Course Code & Name : MCA – 09 & C++ and Object Oriented Programming

Batch : AY 2019-20 (1st Year)

No.of Assignment : One Assignment for Each 2 Credits

Maximum CIA marks : 25 (Average of Total No. of Assignments)

ASSIGNMENT – 1

Max: 25 marks

Answer any one of the question not exceeding 1000 words

- 1. Explain different types of inheritance.
- 2. Explain various stream classes.
- 3. Explain the steps to create templates with example.

ASSIGNMENT - 2

Max: 25 marks

- 1. Explain about the basic concepts of OOPS.
- 2. Explain the control structure and write the syntax and example.
- 3. Explain inline function with example.



School of Computer Science

HOME / SPOT ASSIGNMENT

Programme Code No : 271

Programme Name : Master of Computer Applications

Course Code & Name : MCA – 10 & Theory of Computer Science

Batch : AY 2019-20 (1st Year)

No. of Assignment : One Assignment for Each 2 Credits

Maximum CIA marks : 25 (Average of Total No. of Assignments)

ASSIGNMENT – 1

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Write in detail about equivalent in automation.

2. Construct truth table for the formula $(Q^{\wedge}(P \rightarrow Q)) \rightarrow P$.

3. Explain in detail transition function in Finite automation.

ASSIGNMENT - 2

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. What are the Kleene closures of the set

$$A = \{0\}, B = \{0,1\} \text{ and } C = \{1,1\}$$

2. Find a Turing machine that recognizes the set $\{0^n 1^n / n \ge 1\}$.

3. Explain recursive function theory with example.