

TAMIL NADU OPEN UNIVERSITY

School of Computer Science

SPOT ASSIGNMENT– CY - 2019

NOTE: Part A Contains 3 Questions and will carry 5 Marks each, Part B Contain 1 Question and will carry 10 Marks. Students are requested to write 150 words and should not exceed 2 pages each in Part A, 300 words and should not exceed 4 pages in Part B.

Master of Computer Applications

Second Year

Course Code: MCA-11

Course Title: Computer Graphics

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Explain a line drawing algorithm.
2. Explain Cohen Sutherland algorithm.
3. What is view port? Explain.

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

1. Explain z-Buffer algorithm.

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Master of Computer Applications

Second Year

Course Code : MCA-12

Course Title : Design and Analysis of Algorithms

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. What is recursion? Give an example.
2. Explain Binary Search?
3. Explain backtrack programming with an Example.

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

1. Derive the time complexity of Quick sort.

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Master of Computer Applications

Second Year

Course Code : MCA-13

Course Title : Accounting and Finance on Computers

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Explain the types of ratio.
2. Explain the ABC analysis.
3. Explain the limitations of Budgetary control

Part- B- Long Answer Questions

Answer the following question

(1 X 10 = 10 Marks)

1. Explain the Management of Working capital.

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Master of Computer Applications

Second Year

Course Code : MCA-14

Course Title : Communication Skills

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Explain the objectives of Communication?
2. Explain the purpose of GD.
3. Explain the importance of Negotiation.

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

- 1 Explain the techniques for Negotiation.

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Master of Computer Applications

Second Year

Course Code: MCA-15

Course Title: Computer Networks

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Explain various transmission media
2. What is multicasting?
3. Explain the elements of transport protocols.

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

1. Explain Congestion Control algorithms

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Master of Computer Applications

Second Year

Course Code: MCA-16

Course Title: Operation Research

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Solve the following assignment problem to minimize the Cost

	1	2	3	4	5
A	10	12	8	3	7
B	2	8	2	1	9
C	12	17	6	3	2
D	7	9	8	10	12
E	8	7	6	12	8

2. Solve The IPP

Maximize $z = 2x_1 + x_2$ Subject to

$$x_1 + x_2 \leq 2$$

$$2x_1 + 3x_2 \leq 5$$

$x_1, x_2 \geq 0$ and are integers

3. Explain various costs associated with inventory.

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

1. Solve the TP

	D1	D2	D3	D4	
01	8	2	6	5	12
02	3	6	4	3	8
03	2	4	5	3	10
04	3	3	2	1	10
	5	15	8	12	40

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Master of Computer Applications

Second Year

Course Code: MCA-17

Course Title: Operating Systems

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Explain mutual exclusion.
2. What is deadlock? Explain.
3. Explain about segmentation?

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

1. Explain a method for preventing deadlock?

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Master of Computer Applications

Second Year

Course Code : MCA-18

Course Title : Object Oriented Analysis and Design

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. What is use case analysis?
2. What are Patterns? Give two examples.
3. What is a State Diagram? Give an example.

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

- 1) Explain the importance of proper classification of classes

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Master of Computer Applications

Second Year

Course Code: MCA-19

Course Title: Internet Programming

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Explain the structure of Web Pages
2. Explain About API.
3. How do you add graphics to Web Pages?

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

- 1) Explain about JVM.

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Master of Computer Applications

Second Year

Course Code: MCA-20

Course Title: Visual Programming

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Explain about DLL?
2. Explain event handling in VC++?
3. What is OLE?

Part- B- Long Answer Questions

Answer the following question

(1 X 10 = 10 Marks)

1. Explain about MDI.