Tamil Nadu Open University

School of Computer Science
Chennai – 15
HOME / SPOT ASSIGNMENT

Programme Code No : 271
Programme Name : Master of Computer Applications
Course Code & Name : MCA – 11 & Computer Graphics
Batch : CY 2019 (2nd 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 in detail about polygon clipping.
2. Explain about Graphical input function.
3. Explain about cohen-sutherland line clipping algorithm.

ASSIGNMENT - 2

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Explain the working principle of shadow mask CRT.
2. Explain view transformation and windowing transformation in detail.
3. Explain the depth-sorting method in detail.

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HOME / SPOT ASSIGNMENT

Programme Code No : 271
Programme Name : Master of Computer Applications
Course Code & Name : MCA – 12 & Design and Analysis of Algorithms
Batch : CY 2019 (2nd 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 methods used to analyse an algorithm.
2. What is meant by ordered list? Explain the algorithm used to create it.
3. Illustrate the applications of a tree with an example.

ASSIGNMENT - 2

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Explain the basic steps in the complete development of an algorithm with suitable example.
2. Explain the concepts of sub goals, hill climbing and working backward using a single example.
3. Write detail notes on simulation.

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Programme Code No : 271
Programme Name : Master of Computer Applications
Course Code & Name : MCA – 13 & Accounting and Finance on Computers
Batch : CY 2019 (2nd 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. What are accounting concepts? Name them and explain in details.

2. X Y Ltd., a multi-product company furnishes you the following data relating to year. Assuming that the cost structure and selling prices remains the same. Find out.

   (a) P/V ratio

   (b) Break even sales.

   (c) Profit when sales are Rs. 1,00,000

   (d) Sales required to earn a profit of Rs. 20,000.

Period	Sales	Profits
I	1,20,000	9,000
II	1,40,000	13,000

3. Explain VED Analysis with an example.

Max : 25 marks

ASSIGNMENT - 2

Answer any one of the question not exceeding 1000 words

1. Define different types of accounting. What are the advantages of it?

2. Define budgetary control and state its advantages.

3. You are given the following data for the year 2004 of the company.

   Variable cost Rs. 6,00,000
   Fixed cost Rs. 3,00,000
   Net profit Rs. 1,00,000
   Sales Rs. 10,00,000
   Find

   a. P/V Ratio
   b. Break-even point
   c. Profit when sales amounted to Rs. 12,00,000
   d. Sales required to earn a profit of Rs. 2,00,000.

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Programme Code No :271
Programme Name : Master of Computer Applications
Course Code & Name : MCA – 14 & Communication Skills
Batch : CY 2019 (2nd 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. What are the various diagnostic models aiding in understanding oral communications?

2. Name and explain the different interviews used in an organization?

3. What is paraphrasing? Also list the techniques and dos and don'ts of paraphrasing.

ASSIGNMENT - 2

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. What are the attributes of a good conversationalist?

2. Briefly elaborate the negotiation techniques.

3. Give some examples of nonverbal behavior and its body language interpretation.

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Programme Code No : 271
Programme Name : Master of Computer Applications
Course Code & Name : MCA – 15 & Computer Networks
Batch : CY 2019 (2nd 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 OSI Reference model of Network architecture with Block diagram.
2. Discuss about Satellite Networks
3. Discuss about Broadcast Routing and Hierarchical Routing.

ASSIGNMENT - 2

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Describe the function of different layers in the OSI reference model.
2. Explain the MAC layer for medium access.
3. Explain multicast routing and link state routing algorithms.

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Programme Code No	: 271
Programme Name	: Master of Computer Applications
Course Code & Name	: MCA – 16 & Operation Research
Batch	: CY 2019 (2nd 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. Find the optimum integer solution to the following L.P.P.

   Max $Z = x_1 + x_2$

   Subject to constraints

   $3x_1 + 2x_2 \leq 5$
   $x_2 \leq 2$
   and $x_1 > 0, x_2 \geq 0$ and are integers.

2. By dynamic programming technique, solve the problem

   Min $Z = x_1^2 + x_2^2 + x_3^2$

   Subject to constraints

   $x_1 + x_2 + x_3 \geq 15$
   and $x_1, x_2, x_3 \geq 0$.

3. Explain simulation and give its applications to queuing theory.

ASSIGNMENT – 2

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. In a super market, the average arrival rate of customer is 10 in every 30 minutes following Poisson process. The average time taken by the cashier to list and calculate the customer's purchases is 2.5 minutes, following exponential distribution. What is the probability that the Queue length exceeds 6? What is the expected time spent by a customer in the system?

2. A manufacturer has to supply his customer with 600 units of his products per year. Shortage is not allowed and storage cost amounts to 60 paise per unit per year. The set up cost is Rs. 80.00 find

   (a) The economic order quantity.

   (b) The minimum average yearly cost.

   (c) The optimum number of orders per year.

3. Find the optimum solution for the following transportation problem.

		Destination				
		D_1	D_2	D_3	D_4	Supply
Origin	O_1	11	13	17	14	250
	O_2	16	18	14	10	300
	O_3	21	24	13	10	400
Demand		200	225	275	250	

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Programme Code No : 271
Programme Name : Master of Computer Applications
Course Code & Name : MCA – 17 & Operating Systems
Batch : CY 2019 (2nd 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 characteristics of modern operating system.

2. Define interprocess communication and also explain the producer – consumer problem.

3. What is meant by user authentication? Classify the types of authentication mechanism.

ASSIGNMENT - 2

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Explain shortest remaining time first-CPU scheduling in detail.

2. Write in detail about fixed and equal multiple partition memory management scheme.

3. Explain file accessing methods in detail.

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Programme Code No : 271
Programme Name : Master of Computer Applications
Course Code & Name : MCA – 18 & Objected Oriented Analysis and Design
Batch : CY 2019 (2nd 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 in detail about objects and classes with necessary examples.

2. Discuss the overview of system design. Explain about sub systems.

3. Discuss in detail about non–object oriented languages.

Max : 25 marks

ASSIGNMENT - 2

Answer any one of the question not exceeding 1000 words

1. Explain in detail about advanced dynamic modeling concepts with its relevant example.

2. Explain about the steps required for software control implementation.

3. Describe in detail about design optimization for object designing phase.

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Programme Code No : 271
Programme Name : Master of Computer Applications
Course Code & Name : MCA – 19 & Internet Programming
Batch : CY 2019 (2nd 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 different applications of internet.
2. Explain form validation in Java script with an example.
3. Explain about exception handling with illustration.

ASSIGNMENT - 2

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Explain in detail about table tags.
2. Explain Java bit wise operators with example.
3. Explain the importance and methods to implement interface in Java.

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Programme Code No : 271
Programme Name : Master of Computer Applications
Course Code & Name : MCA – 20 & Visual Programming
Batch : CY 2019 (2nd 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 VB string manipulation functions in detail.
2. Explain about the VC++ event handling in detail.
3. Explain the key concepts of DLL in Visual C++.

ASSIGNMENT - 2

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Explain Object-Oriented Programming and its characteristics.
2. Explain file concepts in VC++.
3. Discuss about ODBC connectivity for database.