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|  | **TAMIL NADU OPEN UNIVERSITY****Chennai - 15****School of Computer Science** |

Programme Code No : 146

Programme Name : B.Sc- Computer Science

Course Code & Name : BSCS-07 & Applied Operations Research

Batch : AY 2019-20

No. of Assignment : 2

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

**Assignment-1**

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain about the different phases of OR.

1. Use simplex method to solve the following LPP.

Maximize *Z* =4*x* + 10*x*

1 2

Subject to

2*x* + *x* ≤ 50

1 2

2*x* + 5*x* ≤ 100

1 2

2*x* + 3*x* ≤ 90

1 2

*x* , *x* ≥ 0.

 1 2

3. How to do the same effectively and efficiently?

Explain its components.

 **Assignment-2**

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Find the sequence that minimizes the total elapsed time required to complete the following tasks on the machines in the order 1-2-3. Find also
the minimum total elapsed time (hours) and the idle times on the machines.

Task A B C D E F G

Time on

Machine 1 3 8 7 4 9 8 7

Machine 2 4 3 2 5 1 4 3

Machine 3 6 7 5 11 5 6 12

2. The cost of a machine is Rs. 6100 and its scrap value is Rs 100. The maintenance costs found from experience are as follows.

Year 1 2 3 4 5 6 7 8

Maintenance 100 250 400 600 900 1250 1600 2000

When the machine should be replaced?

3. Explain about the Group replacement and individual policy.

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|  | **TAMIL NADU OPEN UNIVERSITY****Chennai - 15****School of Computer Science** |

Programme Code No : 146

Programme Name : B.Sc Computer Science

Course Code & Name : BSCS-08 & Design and Analysis of Algorithms

Batch : AY 2019-20

Batch : AY 2019-20

No. of Assignment : 2

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

**Assignment-1**

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain in detail about the Jeep Problem.
2. Briefly explain about the Branch and Bound with suitable example.
3. Discuss about the Linear Search with suitable example.

**Assignment-2**

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Discuss about the correctness of the algorithm.
2. Elaborate about the Growth of function.
3. Discuss about the Recurrences Master method.

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|  | **TAMIL NADU OPEN UNIVERSITY****Chennai - 15****School of Computer Science** |

Programme Code No : 146

Programme Name : B.Sc Computer Science

Course Code & Name : BSCS-09 & Object Oriented Programming with C++

Batch : AY 2019-20

Batch : AY 2019-20

No. of Assignment : 2

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

**Assignment-1**

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain the following.
2. Explain the storage classes with example.
	1. Friend function.
	2. Inline function.
3. Explain in detail about function overloading with an example.

**Assignment-2**

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Write a C++ program to find the factorial.
2. Explain about C++ function with an example in detail.

Explain Exception handling with an example.

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|  | **TAMIL NADU OPEN UNIVERSITY****Chennai - 15****School of Computer Science** |

Programme Code No : 146

Programme Name : B.Sc Computer Science

Course Code & Name: BSCS-10 & Introduction to Database Management Systems

Batch : AY 2019-20

Batch : AY 2019-20

No. of Assignment : 2

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

**Assignment-1**

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Discuss about any two file organization methods.
2. Explain in details First Normal Form and Second Normal Form.
3. Discuss on converting a class diagram to Normalized tables with example.

**Assignment-2**

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain about SQL Data Definition Language statements.
2. Explain the structure of distributed database.
3. Explain the various elements of DBMS.

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|  | **TAMIL NADU OPEN UNIVERSITY****Chennai - 15****School of Computer Science** |

Programme Code No : 146

Programme Name : B.Sc Computer Science

Course Code & Name : BSCS-11& Accounting and Financial Management

Batch : AY 2019-20

Batch : AY 2019-20

No. of Assignment : 2

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

**Assignment-1**

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. The following information was extracted from the books of M/S Sudha Ltd. Prepare final accounts on 31.3.2019.

Particulars Debit Particulars Credit/Rs.

/Rs.

Opening stock 25,000 Sales 1,45,000

Sales returns 5,000 Purchase 2,500

returns

Purchases 1,22,500 Discount 300

received

Carriage 2,000 Capital 1,36,450

inwards

Carriage 3,000 Bill payable 7,500

outwards

Wages 6,000

Salaries 9,000

Printing and 450

stationary

 Discount allowed 450

Depreciation 1,500

Building 1,04,050

Trade expenses 2,800

Bills receivables 10,000

2,91,750 2,91,750

Adjustments

(a) Closing stock 32,500

(b) Outstanding wages Rs. 1,500

2. From the following profit and loss a/c and Balance

sheet of Governor Industries, Prepare a comparative Income statement.

Profit and Loss A/c for the year ending 2016-17

Liabilities 2016 2017 Assets 2016 2017

Rs. Rs. Rs. Rs.

To cost of goods sold

To operating expenses 5,00,000 To operating expenses

Administrative expenses 20,000

Selling expenses 30,000

To net profit 1,50,000

7,00,000

 5,00,000 6,40,000 By sales 7,00,000 9,00,000

20,000 20,000

30,000 40,000

1,50,000 2,00,000

7,00,000 9,00,000 7,00,000 9,00,000

**Assignment-2**

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. What is zero base budgeting and its advantages
and disadvantages?
2. Explain the factors determing the working capital.
3. The records of a company show the following

Year Sales Profit

2014 1,20,000 9,000

2015 1,40,000 13,000

Find out:

(a) P/V Ratio

(b) Break-even point

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

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

(e)Margin of safety for year 2015.

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|  | **TAMIL NADU OPEN UNIVERSITY****Chennai - 15****School of Computer Science** |

Programme Code No : 146

Programme Name : B.Sc Computer Science

Course Code & Name : BSCS-12 & Management Information Systems

Batch : AY 2019-20

Batch : AY 2019-20

No. of Assignment : 2

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

**Assignment-1**

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain the following :
	1. Data dictionary (b) Decision trees.
2. Define DSS. Explain the classification of DSS in detail.
3. Explain about executive information system.

**Assignment-2**

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. What is system design? Explain its types in detail.
2. Discuss the functions Quality information system.
3. What are the functions of the management as a control system?

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|  | **TAMIL NADU OPEN UNIVERSITY****Chennai - 15****School of Computer Science** |

Programme Code No : 146

Programme Name : B.Sc Computer Science

Course Code & Name : BSCS-13 & Principles of Management

Batch : AY 2019-20

Batch : AY 2019-20

No. of Assignment : 2

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

**Assignment-1**

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Briefly explain the types of planning.
2. Elaborate the management by objectives.
3. Illustrate the organisation structure clearly.

**Assignment-2**

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. With clear explanation explain the line and staff relationship.
2. Describe the sources of recruitment and selection process.
3. Distinguish the budgetary and non budgetary control.

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|  | **TAMIL NADU OPEN UNIVERSITY****Chennai - 15****School of Computer Science** |

Programme Code No : 146

Programme Name : B.Sc Computer Science

Course Code & Name : BSCS-14 & Managing Information Technology

Batch : AY 2019-20

Batch : AY 2019-20

No. of Assignment : 2

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

**Assignment-1**

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Discuss about Chief Knowledge Office.
2. Briefly explain about business innovation.
3. Explain construction of information system architecture.

**Assignment-2**

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Discuss about IT process management
2. Explain the advantage of computer security.
3. Discuss about preparation of IT master plans.