



TAMIL NADU OPEN UNIVERSITY

Chennai - 15

School of Computer Science

Programme Code No : 146
Programme Name : B.Sc Computer Science
Course Code & Name : BCM – 01 & Mathematics Batch : AY 2021-2022
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. Find the real positive root of $3x - \cos x - 1 = 0$ by Newton – Raphson method correct to 4 decimal places.
2. Solve the following system of equations by using Gauss – Jacobi method correct to 3 decimal places. $8x - 3y + 2z = 20$, $4x + 11y - z = 33$, $6x + 3y + 12z = 35$.
3. If $A = \{1,2,3...n\}$ show that any function from A to A which is one-to-one must also be onto.

Assignment-2

Max= 25 marks

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

1. List out the types of Relations and explain any 3 relations with example.
2. Find the real positive root of $3x - \cos x - 1 = 0$ by Newton – Raphson method correct to 4 decimal places.
3. Solve the equation $x^4 + 2x^3 - 5x^2 + 6x + 2 = 0$
given that $1 + i$ is a root.



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Programme Code : 146
Programme Name : B.Sc Computer Science
Course Code & Name : BSCS – 04 & Introduction to Computer Organisation
Batch : AY 2021-2022
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 cache memory.
2. Explain ALU organization.
3. Discuss about assembly language programming development tools.

Assignment-2

Max= 25 marks

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

1. Explain combinational circuits with neat diagram.
2. Explain interconnection structures.
3. Explain about instruction formats.



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Programme Code No	146
Programme Name	: B.Sc Computer Science
Course Code & Name	: BSCS – 05 & ‘C’ Programming and Data Structure
Batch	: AY 2021-2022
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 important file handling functions in C with examples.
2. Write a C program to sort the given set of n numbers using pointers.
3. Explain Infix to postfix conversion.

Assignment-2

Max= 25 marks

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

1. Explain briefly about Binary tree traversal
2. Write an algorithm for heap sort.
3. Explain and write an algorithm to traverse a graph through DFS.



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ASSIGNMENT - 1

Programme Code No	146
Programme Name	: B.Sc Computer Science
Course Code & Name	: BSCS – 06 & Visual Basic Programming
Batch	: AY 2021-2022
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 the control structure in VB.
2. Explain Multiple Document Interface – A simple MDI application.
3. How to Create an Active X control project? Explain.

Assignment-2

Max= 25 marks

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

1. Describe in detail Visual Basic forms and controls.
2. Discuss about the control structure in VB.
3. Explain about the property windows.