

**Directorate of Distance Education
Swami Vivekanand Subharti University
I Year**

MASTER OF SCIENCE

(CA)

M.SC(CA)/ASSIGN/ III/SEM/A-2020-21

Assignments

(For JUNE Academic Batch-2020-21)

M.SC(CA)-1, M.SC(CA)-2, M.SC(CA)-3,

M.SC(CA)-4,



**DIRECTORATE OF DISTANCE EDUCATION
SWAMI VIVEKANAND SUBHARTI UNIVERSITY**

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Detail of Program

Course Code	Name of Subject	Page No.
M.SC(CA)-1	Computer Networks	3
M.SC(CA)-2	Design & Analysis of Algorithms	4
M.SC(CA)-3	Object Oriented Programming & C + +	5
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Course Code : M.SC(CA) -1
Course Title : Computer Networks
Assignment No. : M.SC(CA) -1/ A-2020-21
Maximum Marks : 15
Words : 100 words

Attempt all questions.

All questions carry equal marks.

Q.1 Define computer networks?

Q.2 Discuss various types of networks topologies in computer network.

Q.3 What are the applications of Computer Networks?

Q.4 Explain about the INTERNET history?

Q.5 Explain the functions and protocols and services of each layer?

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Course Code : M.SC(CA) -2
Course Title : Design & Analysis of Algorithms
Assignment No. : M.SC(CA) -2/ A-2020-21
Maximum Marks : 15
Words : 200 words

Attempt all questions.

All questions carry equal marks.

Q.1 Explain in detail about the process of solving recurrence relations with suitable examples

Q.2 Explain the asymptotic notations used for best, average and worst case analysis of algorithms

Q.3 Write the linear search algorithm and analyze for its best, worst and average case time complexity.

Q.4 Explain in detail about merge sort. Illustrate the algorithm with a numeric example.

Q.5 Discuss the use of Greedy method in solving Knapsack problem and container loading.

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Course Code : M.SC(CA) -3
Course Title : Object Oriented Programming & C + +
Assignment No. : M.SC(CA) -3/ A-2020-21
Maximum Marks : 15
Words : 200 words

Attempt all questions.

All questions carry equal marks.

Q.1 What are some major Object Oriented Programming languages?

Q.2 What are some other programming paradigms other than OOPs?

Q.3 What is meant by Structured Programming?

Q.4 What are the main features of OOPs?

Q.5 What is encapsulation?

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Course Code : M.SC(CA) -4
Course Title : Internet & Java Programming
Assignment No. : M.SC(CA) -4/ A-2020-21
Maximum Marks : 15
Words : 200 words

Attempt all questions.

All questions carry equal marks.

Q.1 What is the difference between JDK, JRE, and JVM?

Q.2 What is a JIT compiler?

Q.3 What are Brief Access Specifiers and Types of Access Specifiers?

Q.4 How many types of constructors are used in Java?

Q.5 Explain 'this' keyword in Java.