# **MASTER OF COMPUTER APPLICATION**

(MCA)

# MCA/ASSIGN/II/YEAR/ C-2019

Assignments

(For DECEMBER CALENDAR Batch-2019

MCA-09, MCA -10, MCA -11, MCA -12

MCA -13, MCA -14, MCA -15, MCA-16



#### DIRECTORATE OF DISTANCE EDUCATION

SWAMI VIVEKANAND SUBHARTI UNIVERSITY

Subhartipuram, NH-58, Delhi-Haridwar-Meerut

By-Pass Road, Meerut- 250 005

# E DISTA Detail of Program

Course		- 22.64		
Code	SLM Code	Name of the subject	Page No	
MCA-9	C-138	Computer Networks	3	
MCA-10	C-129	Design Analysis of Algorithm	4	
MCA-11	C-105	Object Oriented Programming & C + +	5	
MCA-12	C-133	Computer Based Optimization Techniques	6	
MCA-13	C-112	(A) Visual Basic	G	
	C-107	(B) Discrete Mathematics		
MCA-14	C-117	(A) Internet & E-Commerce	9	
	C-118	(B) MIS		
MCA-15	C-136	Modeling & Simulation	10	
MCA-16	C-137	Internet & Java Programming	11	
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Course Code	:	MCA - 9
Course Title	:	Computer Network
Assignment No.	:	MCA - 9/ C-138/C-2015
SLM Code		C-138 DISTA
Maximum Marks	:6	15
Words	5	100 words
Attempt all questions	s.	
All questions carry e	qual ma	rks.
		C Part C
1. Define the variou	s types	of networks in detail.
2. Discuss ADSL?		
3.What is mobility in	n Netwo	rk?
4.Describe Network	(IPX/SP)	x. Z
5.Discuss Firewalls	& its typ	pes?
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Course Code	:	MCA - 10	
Course Title	:	Design Analysis of Algorithm	
Assignment No.	:	MCA - 10/ C-129/ C-2019	
SLM Code	:	C-129	
Maximum Marks	;/	15 - DISTA	
Words	:	100 words	
Attempt all questions	5.	15 DISTA 100 words	
All questions carry e	qual ma		
6		- Starran C	
1. What do you mea	an by al	lgorithm?	
2. Write short notes on Knapsack problem			
3. Write short notes on Las Vegas Algorithm			
4. Write short on NP-HARD			
5. What is splay tree	e?		
	$\sqrt{2}$		
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Course Code	:	MCA -11
Course Title	:	Object Oriented Programming & C++
Assignment No.	:	MCA - 11/ C-105/ C-2019
SLM Code	:	C-105
Maximum Marks	;	
Words	:	15 100 words
Attempt all question	ıs.	
All questions carry of	equal ma	arks.
All questions carry equal marks.  1. What is the difference between function overloading and operator overloading?  2. What is constructor in C++?  3. Define the features of OOPS?  4. What is type conversion?  5. Is it possible to create a loop that never ends?  5. Is it possible to create a loop that never ends?		

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Course Code	:	MCA - 12	
Course Title	:	Computer Based Optimization Techniques	
Assignment No.	:	MCA - 12/ C-133/ C-2019	
SLM Code	:	C-133	
Maximum Marks	;	15 - DISTA	
Words	:	100 words	
Attempt all questions.			

All questions carry equal marks.

1.Enumerate the various types of inventory models?

2.Formulate and solve the purchase inventory problem with one price break?

3.What is a queue?

4. With respect to the queue system, explain the following:

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i) Input Process ii) Queue discipline iii) Capacity of the system

5. Describe Single queue, single server queuing system.

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Course Code	:	MCA - 13	
Course Title	:	Visual Basic & Discrete Mathematics	
Assignment No.	:	MCA - 13/ C-112, C-107/ C-2019	
SLM Code	:	C-112, C-107	
Maximum Marks	·	<sup>15</sup> DISTA	
Words	:	100 words	
Attempt all questions.			

All questions carry equal marks.

#### Visual Basic

- 1. How does visual basic support OOP paradigm?
- 2. Write a program in Visual Basic to create a simple paint brush or to create a Text editor.
- 3. Explain the mechanism of implementing error handling features in an Application.
- 4. Explain the nested for NEXT LOOP in VISUAL BASIC
- 5. Containing the records of students and to arrange these records in the alphabetical order Total Marks:10

#### **Discrete Mathematics**

- 1. Differentiate between paths and circuits with example.
- 2. Consider  $Z_7 = [0, 1, 2, 3, \dots, 6, +7, \times7]$ . show that  $Z_7$  is a field
- 3. Tree is a "bipartite graph", justify the statement with an example
- 4. Prove that group of prime order is cyclic.
- 5. If R is an equivalence relation on set A, prove that  $R^{-1}$  is also an equivalence relation.

Course Code	:	MCA - 14
Course Title Assignment No.	:	Internet & E-Commerce , MIS MCA - 14/ C-117, C-118 / C-2019
SLM Code	:	C-117, C-118
Maximum Marks	:	15
Words	:	100 words

Attempt all questions.

All questions carry equal marks.

#### **Internet & E-Commerce**

- NCEEDUC 1. Describe the similarities and differences between XML and HTML.
- 2. What is the Encryption Algorithm?
- 3. What do you mean by Encryption?
- 4. What do you mean by Internet?
- 5. what do you mean by Integrity Threats and Necessity Threats along with threats to wireless network.

#### MIS

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1. What do you mean by Information System?

- 2. Write a short note on Structure of Management Information System.
- 3. What do you mean by Organizational Planning?
- 4. What is Procurement Management System?
- 5. Describe the SCM (Supply Chain Management)

Course Code	:	MCA - 15	
Course Title Assignment No.	:	Modeling and Simulation MCA - 15/ C-136/ C-2019	
SLM Code	:	C-136	
Maximum Marks	:	15	
Words	:	15 100 words DISTA	
Attempt all questions	26		
All questions carry ea	jual ma		
4		0	
1.Describe the Natur	al Syste	m and Artificial System.	
2.Write a short note on PERT network			
3. Define the Pure-Pursuit Simulation problem.			
4.Explain Simulation of a water reservoir system.			
5. What is Discrete System Simulation.			
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Course Code	:	MCA - 16	
Course Title Assignment No.	:	Internet & Java Programming MCA - 16/ C-137/ C-2019	
SLM Code	:	C-137	
Maximum Marks	:	15	
Words	:	15 100 words DISTANC	
Attempt all question	s.	CA CA	
All questions carry e	qual ma	urks.	
4		6	
1. How Java is diffe	r from (	C++ ?	
2. What is the type	casting		
3. What is an Array?			
4. Write short note on the mixing data types?			
5. How you can create an Interface?			
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