

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

**MASTER OF COMPUTER APPLICATION**

**(MCA)**

**MCA/ASSIGN/II/YEAR/2018-19**

Assignments

**(For June Academic Batch-2018-19)**

**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

**Directorate of Distance Education**  
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**Detail of Program**

<b>Course Code</b>	<b>SLM Code</b>	<b>Name of the subject</b>	<b>Page No</b>
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	7
	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  
Maximum Marks : 15  
Words : 100 words

Attempt all questions.

All questions carry equal marks.

- Q.1. What is a Link?
- Q.2 What is a LAN?
- Q.3. What is a node?
- Q.4. Describe Network IPX/SPX.
- Q.5. Describe Network Topology.

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Course Code : MCA - 10  
Course Title : Design Analysis of Algorithm  
Assignment No. : MCA - 10/ C-129/ A-2018-19  
SLM Code : C-129  
Maximum Marks : 15  
Words : 100 words

Attempt all questions.

All questions carry equal marks.

- Q.1.** What do you mean by algorithm?  
**Q.2.** Write a short note on Travelling Sales Person Problem.  
**Q.3.** Write a short note on Monte Carlo Algorithm .  
**Q.4.** Write a short note on NP-COMPLETE PROBLEMS  
**Q.5.** What is splay tree?

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Course Code : MCA -11  
Course Title : Object Oriented Programming & C++  
Assignment No. : MCA - 11/ C-105/ A-2018-19  
SLM Code : C-105  
Maximum Marks : 15  
Words : 100 words

Attempt all questions.

All questions carry equal marks.

- Q.1.** Compare & contract OHT with SA/SD, JSD.  
**Q.2.** What is OOP's ?  
**Q.3.** What do you mean by preprocessor directives ?  
**Q.4.** Write a short note on Use case diagram  
**Q.5.** What is type conversion?



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Course Code : MCA - 12  
Course Title : Computer Based Optimization Techniques  
Assignment No. : MCA - 12/ C-133/ A-2018-19  
SLM Code : C-133  
Maximum Marks : 15  
Words : 100 words

Attempt all questions.

All questions carry equal marks.

- Q.1 Write a short note on Queuing Theory.  
Q.2. Write a short note on Sensitivity Analysis.  
Q.3. Define inventory.  
Q.4. Describe Poisson distribution.  
Q.5. Write a short note on Degeneracy in L.P.P.



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Course Code : MCA - 13  
Course Title : Visual Basic & Discrete Mathematics  
Assignment No. : MCA - 13/ C-112, C-107/ A-2018-19  
SLM Code : C-112, C-107  
Maximum Marks : 15  
Words : 100 words

Attempt all questions.

All questions carry equal marks.

**Visual Basic**

- Q.1. What is object-oriented programming ?
- Q.2. Define the mechanism of implementing error handling features in an Application.
- Q.3. Explain visual basic's integrated development environment.
- Q.4. Containing the records of students and to arrange these records in the alphabetical order. Discuss.
- Q.5. Differentiate between parent and child forms.

**Discrete Mathematics**

- Q.1. Write a short note on paths with example.
- Q.2. Write a short note on circuits with example.
- Q.3. Find  $\mathbf{a}$  if the vectors are linearly dependent.
- Q.4. Prove that group of prime order is cyclic.
- Q.5. Find the minimal spanning tree of the following graph.

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Course Code : MCA - 14  
Course Title : Internet & E-Commerce , MIS  
Assignment No. : MCA - 14/ C-117, C-118 / A-2018-19  
SLM Code : C-117, C-118  
Maximum Marks : 15  
Words : 100 words

Attempt all questions.

All questions carry equal marks.

**Internet & E-Commerce**

- Q.1. What do you mean by Internet?
- Q.2. What is E-Banking?
- Q.3. What is Payment Cards?
- Q.4. Describe the advantages and disadvantages of electronic cash.
- Q.5. Describe the Secure HTTP (S-HTTP)..

**MIS**

- Q.1. What are the phases in design of MIS.
- Q.2. How can information system be applicable for business operation? Explain in detail
- Q.3. What do you mean by Organizational Planning?
- Q.4. Elaborate the computation support for organization planning with a suitable diagram.
- Q.5. Define the different stages of CRM with key points to successful CRM implementation.



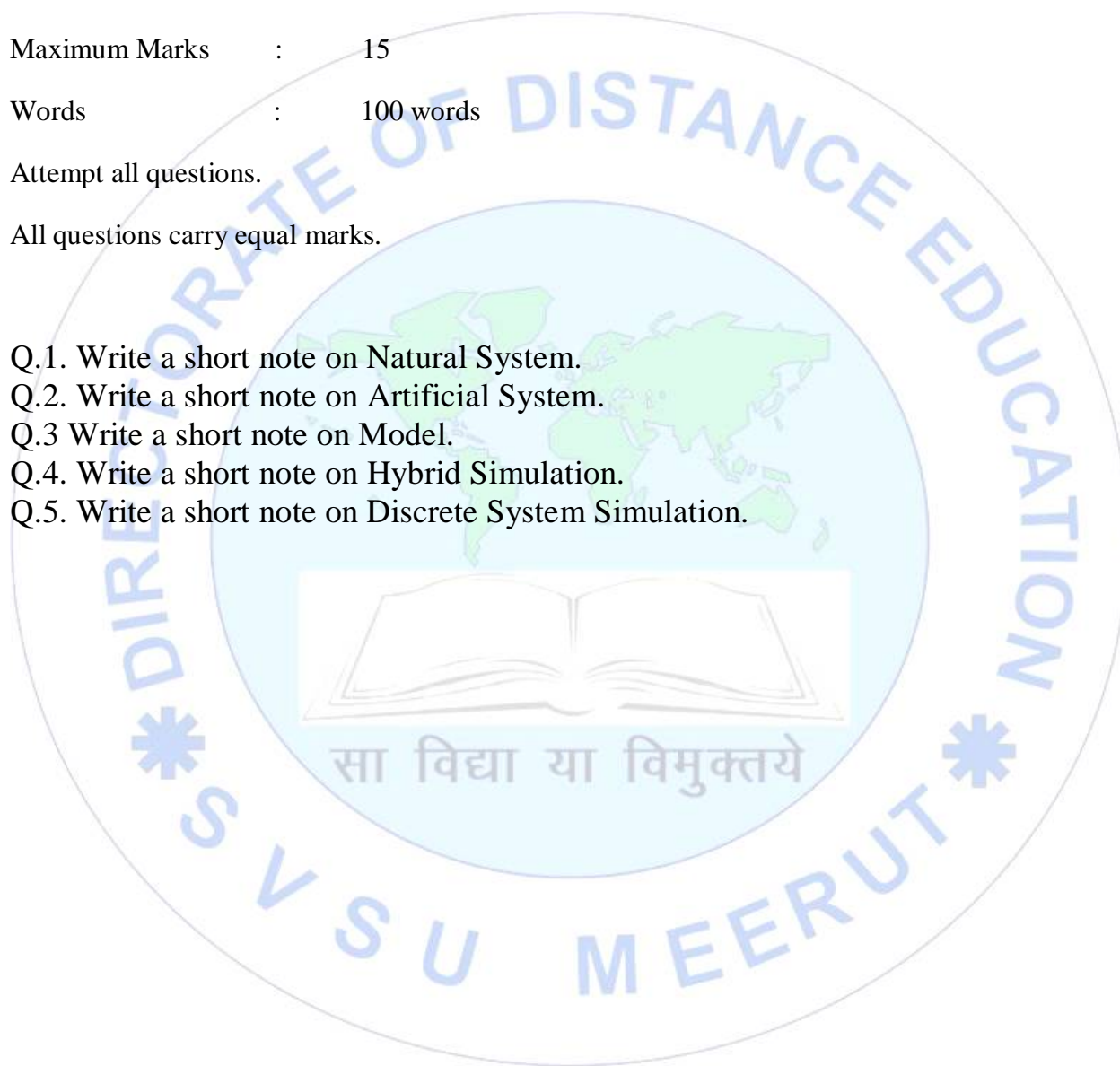
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Course Code : MCA - 15  
Course Title : Modeling and Simulation  
Assignment No. : MCA - 15/ C-136/ A-2018-19  
SLM Code : C-136  
Maximum Marks : 15  
Words : 100 words

Attempt all questions.

All questions carry equal marks.

- Q.1. Write a short note on Natural System.  
Q.2. Write a short note on Artificial System.  
Q.3 Write a short note on Model.  
Q.4. Write a short note on Hybrid Simulation.  
Q.5. Write a short note on Discrete System Simulation.



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Course Code : MCA - 16  
Course Title : Internet & Java Programming  
Assignment No. : MCA - 16/ C-137/ A-2018-19  
SLM Code : C-137  
Maximum Marks : 15  
Words : 100 words

Attempt all questions.

All questions carry equal marks.

- Q.1.** What gives Java its “Write once and run anywhere” nature ?  
**Q.2.** What is Internet?  
**Q.3.** What are the restrictions when overriding a method ?  
**Q.4.** What are different types of access modifiers/specifiers?  
**Q.5.** What is Java ? How is Java different from C++ ?

