



Assignment No: 2

Programme: _____

Semester: _____

Submitted by:-

Student Name :	
Enrollment No :	
Roll No. :	
Course Name:	
Date of Submission:	

Submitted to:-

**Department of Computer Science and Applications (CSA)
Monad University
N.H. 24, Delhi Hapur Road, Pilakhwa,
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Programme: MCA IV Sem
Course Name: WEB TECHNOLOGY
Course Code: MCA-221
Assignment No: 2
Due date of submission: 20.04.2018

Instructions

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

Q.1

- a) As you are aware of Common Gateway Interface (CGI). So, you can explain the procedure to write a simple CGI script. Do it.
- b) As you are aware of PERL. So, you can write a program in PERL to find the average marks of five courses. Do it.

Q.2

- a) As you know about RMI. So, you can explain RMI applications in brief. Do it.
- b) As you are aware of Session Object in ASP. So, you can explain session variable and also explain how sessions are created and destroyed. Do it.



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Programme: MCA IV Sem

Course Name: Computer Organization

Course Code: MCA-222

Assignment No: 2

Due date of submission: 20.04.2018

Instructions

1. Write the responses to the assignment in your own handwriting.
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3. Write your Name, Programme and Enrollment No. clearly at the top of page.

Q.1

- (a) What is Stack? Explain the PUSH and POP operations used with it
- (b) Explain the “Addressing Modes” in detail.

Q.2

- (a) What is assembly language? Write all the rules of assembly language.
- (b) What is ALU? Explain in brief.



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Programme: MCA IV Sem

Course Name: CBNST

Course Code: MCA-223

Assignment No: 2

Due date of submission: 20.04.2018

Instructions

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

Q.1

- a) What do you mean by Newton Divided difference formula? Explain with the help of an example.
- b) Discuss Newton's forward and backward formula with example.

Q.2

- a) Explain the Boole's Rule with the help of suitable example.
- b) Explain the Runge-Kutta methods, with the help of an example.



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Programme: MCA IV Sem

Course Name: Theory of Computation

Course Code: MCA-224

Assignment No: 2

Due date of submission: 20.04.2018

Instructions

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Q.1

(a) As you know about transducers. So, you can explain Moore and Mealy machine with suitable example of each. Do it.

(b) A regular expression is given below

$(0+1)^* 010 (00+11)$

Design FA for it.

Q.2

(a) As you are aware of Turing machine. So, you can explain all its variants in detail. Do it.

(b) As you know about Post Correspondence Problem. So, explain Post Correspondence Problem and Modified Post Correspondence Problem with suitable example of each.



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Programme: MCA IV Sem

Course Name: DATA WARE HOUSING & DATA MINING

Course Code: MCA-225-3

Assignment No: 2

Due date of submission: 20.04.2018

Instructions

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2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

Q.1

- (a) As we know about data ware house. Now, discuss data mart and also differentiate it from data ware house.
- (b) Define Schema. Also explain star and snow flake schema in detail.

Q.2

- (a) As we know about data mining. So, now you can explain a detailed architecture of data mining (KDD process). Do it.
- (b) We know that, there are several types of OLAP server. Explain ROLAP, MOLAP and HLOP with neat and clean diagram.



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Programme: MCA IV Sem

Course Name: CRYPTOGRAPHY&NETWORK SECURITY

Course Code: MCA-226-2

Assignment No: 2

Due date of submission: 20.04.2018

Q.1

(a): As you know, in *classical cryptography*, the various parameters used by a decryption *algorithm* are derived from the same secret key that was used in the *encryption algorithm*. Explain the concept of classical encryption techniques?

(b) Differentiate between active attacks and passive attacks in brief.

Q.2

(a): As we know that there are three layers of OSI network security. So can you explain the security mechanism in detail?

(b) As we know that security services are the main component to secure our data. So can you explain types of security services it will help you learn more about the topic?