

MCA/MSC ASSIGNMENT -1

MCA 1 SEM

Course: MCA- 111 Professional Communications

Assignment No: 1

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 Enrolment No. clearly at the top of the page.

- Q. 1 (a) Define 'sentence'. Write the types of sentences along with examples and each type should contain minimum 10 sentences.
- (b) Define verb. Describe the types of verb along with auxiliary and modal verbs. Write minimum 10 sentences using different modal verbs.
- Q. 2 (a) Verbal Communication is very necessary for a professional. Explain both types of verbal communication. What are the steps of oral and written communication?
- (b) Point out the steps that are necessary for improving your hierarchical communication. Explain them with the help of different ways.

Course: MMTH-112 Discreet Mathematics

Assignment No: 1

Due date of submission: 10.11.2016

Instruction

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 Enrolment No. clearly at the top of the page.

Q-1.

- (a) Write the isomorphism of group with example.

(b) Group A and Group B are isomorphic if and only if for some ordering of their vertices and their adjacency matrix is equal.

Q.2

(a) Define complete graph with example K_6 .

(b) Write truth table for $p \wedge q \wedge r$, where p, q, r are any proposition.

Course: MCA-112 COMPUTER FUNDAMENTAL & C PROGRAMMING

Assignment No: 1

Due date of submission: 10-Nov-2016

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 Enrolment No. clearly at the top of the page.

Q-1

- (a) What is programming language? Explain the features of c programming language.
- (b) Make the table of data type with its ranges.

Q-2

- (a) Make the table of memory units.
- (b) Draw a flow chart of a program of addition of two matrixes.

COURSE: MCA-113 DATABASE MANAGEMENT SYSTEM

Assignment No: 1

Due date of submission: 10.11.2016

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 is RDBMS? How it is differ from DBMS? Also give applications of DBMS.

b) Write short note on

- i) DBA.
- ii) File Processing System.

Q.2

a) Define entity. Draw an E-R diagram for an entity 'BANK'. Also discuss the types of attribute with example.

b)

- 1. What is SQL? Differentiate between DDL & DML.
- 2. Write short note on:
 - i) Relationship.
 - ii) Concurrency Control.
 - iii) Security in database.

COURSE: - MCA-114 OPERATIONS RESEARCH

Assignment No-1

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Instructions

Write the response to the assignment in your own handwriting.

Submit the response to your HOD within the due date.

Write your name, Programme and Enrolment No. clearly at the top of the page.

Q.1

a) Discuss the scope of operations Research.

b) Solve by graphical method

$$\text{Min } Z = 5x_1 + 6x_2$$

$$\text{Subject to } x_1 + x_2 \geq 50$$

$$x_1 + 2x_2 \leq 40$$

$$3x_1 + 4x_2 \leq 100, \text{ and } x_1, x_2 \geq 0$$

Q.2

a) Find the dual of the following L.P.P.

$$\text{Min } Z = 3x_1 + x_2$$

$$\text{Subject to } 2x_1 + 3x_2 \geq 2$$

$$x_1 + x_2 \geq 1, \text{ and } x_1, x_2 \geq 0$$

b) Find the initial basic feasible solution of the following transportation problem using Matrix minima method.

To

1 2 3 Available

From	<i>A</i>	2	7	4	5
	<i>B</i>	3	3	1	8
	<i>C</i>	5	4	7	7
	<i>D</i>	1	6	2	14

Requirement 7 9 18

MCA 3 SEM

COURSE: MCA-211 Computer Networks

Due date of submission: 10.11.2016

Instructions

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

Q.1- what is data flow?

(a).Explain half duplex.

(b).Explain full duplex.

Q.2-

(a).Describe LAN/WAN with suitable example.

(b).What is OSI model?

Course: MCA-212 Operating System

Assignment No: 1

Due date of submission: 10-Nov-2016

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 Enrolment No. clearly at the top of the page.

Q-1-

- (a) What is the significance of Operating System in Computer?
- (b) Define all the types of Operating System, with appropriate examples.

Q-2-

- (a) What are the components and services of Operating System?
- (b) Define following terms:
 - (i) Deadlock Characteristics.
 - (ii) Demand Paging.
 - (iii) File Access Method.
 - (iv) Scheduler.

Course: MCA-213 Design Analysis and algorithms

Assignment No: 1

Due date of submission: 10-Nov-2016

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 Enrolment No. clearly at the top of the page.

Q-1

- (a) Sort the following array using selection sort: $A[] = \{5, 2, 1, 4, 3\}$.
- (b) Why do we study algorithms?

Q-2

- (a) Analyse the insertion sort on worst case.
- (b) Rewrite the bubble sort, selection sort and insertion sort procedures which sort the given list elements in a non-increasing order.

COURSE: MCA-214 DATABASE MANAGEMENT SYSTEM

Assignment No: 1

Due date of submission: 10.11.2016

Instructions

- 4. Write the responses to the assignment in your own handwriting.
- 5. Submit the responses to your HOD within the due date.
- 6. Write your Name, Programme and Enrollment No. clearly at the top of page.

Q.1

- c) What is RDBMS? How it differs from DBMS? Also give applications of DBMS.
- d) Write short note on
 - iv) DBA.
 - v) File Processing System.

Q.2

- a) Define entity. Draw an E-R diagram for an entity 'BANK'. Also discuss the types of attribute with example.
- b)
 - 1. What is SQL? Differentiate between DDL & DML.
 - 2. Write short note on:
 - i) Relationship.
 - ii) Concurrency Control.
 - vi) Security in database.

Course: MCA-215 object oriented programming & C++

Assignment No: 1

Due date of submission: 10-Nov-2016

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 Enrolment No. clearly at the top of the page.

Q-1

- (a) Draw a level-2 data flow diagram of hospital system.
- (b) Write down the difference between association and generalization with the help of diagram.

Q-2

- (a) What is the nested state diagram? Explain with the help of example.
- (b) Draw a flow chart to print the vowels on screen using switch case.

COURSE: - MCA-216 OPERATIONS RESEARCH

Assignment No-1

Instructions

Write the response to the assignment in your own handwriting.

Submit the response to your HOD within the due date.

Write your name, Programme and Enrolment No. clearly at the top of the page.

Q.1

- c) Discuss the scope of operations Research.
- d) Solve by graphical method:

$$\begin{aligned} \text{Min } Z &= 5x_1 + 6x_2 \\ \text{Subject to } & x_1 + x_2 \geq 50 \\ & x_1 + 2x_2 \leq 40 \\ & 3x_1 + 4x_2 \leq 100, \text{ and } x_1, x_2 \geq 0 \end{aligned}$$

Q.2

c) Find the dual of the following L.P.P.

$$\begin{aligned} \text{Min } Z &= 3x_1 + x_2 \\ \text{Subject to } & 2x_1 + 3x_2 \geq 2 \\ & x_1 + x_2 \geq 1, \text{ and } x_1, x_2 \geq 0 \end{aligned}$$

d) Find the initial basic feasible solution of the following transportation problem using Matrix minima method

To

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From	<i>A</i>	2	7	4	5
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Requirement 7 9 18

MCA 5 SEM

COURSE: MCA-311 WEB TECHNOLOGY

Assignment No: 1

Due date of submission: 10-Nov-2016

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 Enrolment No. clearly at the top of the page.

Q-1

- (a) What is web? Explain the history of web.
- (b) Prepare a list of all cyber laws of India.

Q-2

- (a) Explain all the basic communication issues we have in internet.
- (b) Write down all the difference between traditional projects and web projects.

COURSE: MCA-312 MULTIMEDIA AND ITS APPLICATION

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 Enrolment No. clearly at the top of the page.

Question 1:

- a) Describe what MIDI is, what its benefits are, and how it is best used in a multimedia project.
- b) What is the difference between analog and digital video? How do you digitize analog video?

Question 2:

a) Explain the following:

- (1) Multimedia Database.
- (2) MPEG Standards.
- (3) Silence Compression.
- (4) Macromedia products.

b)

- (1). Discuss the role of text in Multimedia. Explain Formatted and Unformatted text.
- (2) What are some of the different methods used to create animation? How would you describe each these methods?

Course: MCA-313 .NET Framework and C#

Assignment No: 1

Due date of submission: 10-Nov-2016

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 Enrolment No. clearly at the top of the page.

Q-1-

- (a) What is .NET? What are the Features of .NET?
- (b) Define the role of common language runtime in .NET framework.

Q-2-

- (a) What do you mean by pure object oriented programming language? Is C# pure object oriented programming language?
- (b) What are the data types available in C#? Describe with examples?

Course: MCA-314 Software Engineering

Assignment No: 1

Due date of submission: 10-Nov-2016

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 Enrolment No. clearly at the top of the page.

Q-1

- (a) Software does not wear out, they are developed. State your answer for the term.
- (b) Analyse the steps of waterfall model and spiral model with the help of diagram.

Q-2

- (a) What is Y2K problem? Explain in detail.
- (b) Explain the term “design” in software engineering. Also explain cohesion and coupling.

Course: MCA-315 MOBILE COMPUTING

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 Enrolment No. clearly at the top of the page.

Question 1:

- a) What do you mean by “Mobile Computing”? Explain all the features of Mobile Computing.
- b) Draw the Bluetooth protocol stack and explain the core protocols.

Question 2:

a) Explain the following:

1. CDMA.
2. GSM.
3. Mobile IP.
4. Multi-hopping.

b) What do you understand by “Location Based Services in mobile computing”? Describe in brief.

Course: MCA-316 ADVANCE OPERATING SYSTEM

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 Enrolment No. clearly at the top of the page.

Q1.

- A) Describe the communication system in distributed system.
- B) Explain system models in advance operating system.

Q2.

- a) Explain the following terms:
 - i) Fault tolerance.
 - ii) Real time distributed system.
- b) Discuss logical clock in AOS.