MASTER OF COMPUTER APPLICATION

ASSIGNMENTS

MCA – 1ST SEMESTER



(SESSON 2023-2024)

Directorate of Distance Education Guru Jambheshwar University of Science & Technology Hisar - 125001

Programme: Master of Computer Application

Course Name: Database Management System

Code: MCA-11

Semester: 1st

Total Marks: 30

Important Instructions

- 1. Attempt all questions from each assignment given below.
- 2. Each assignment carries 15 marks.
- 3. All questions are to be attempted in legible handwriting on plane white A-4 size paper and upload the scanned copy of the assignments on student's portal.

ASSIGNMENT-I

- Q1. Explain the advantages of Database Management System over File Management System. Also explain the responsibilities of Database Administrator.
- Q2. Construct an ER diagram of a car insurance company whose customers own one or more cars each. Each car has associated with it zero to any number of recorded accidents.
- Q3. Use SELECT, INSERT, UPDATE and DELETE commands in SQL.

ASSIGNMENT-2

- Q1. Differentiate between primary key, candidate key and super key
- Q2. What do you mean by normalization? Explain in detail 1 NF, 2NF, 3NF
- Q3. Describe transaction. Explain the properties and life cycle of transaction.

Prepared By: Kapila Devi Assistant Professor (CSE) DDE, GJUS&T, Hisar

Programme: Master of Computer Application

Course Name: Web Designing
Code: MCA-12

Semester: 1st
Total Marks: 30

Important Instructions

- 1. Attempt all questions from each assignment given below.
- 2. Each assignment carries 15 marks.
- 3. All questions are to be attempted in legible handwriting on plane white A-4 size paper and upload the scanned copy of the assignments on student's portal.

ASSIGNMENT-I

Q1.	Explain various organization schemes and organization structures.	5
Q2.	Explain various core attributes in HTML with proper example.	5
Q3.	Explain Navigation System and its types.	5

ASSIGNMENT-2

Q1.	Explain JavaScript Object model in detail.	5
Q2.	What is PERL? Explain various data structures in PERL.	5
Ω 3	Evolain ASP and ISP Lifecycle in detail	5

Prepared By: Neeraj Verma Assistant Professor (CSE) DDE, GJUS&T, Hisar

Programme: Master of Computer Application

Course Name: Java Programming	Semester: 1 st
Code: MCA-13	Total Marks: 30

Important Instructions

- 1. Attempt all questions from each assignment given below.
- 2. Each assignment carries 15 marks.
- 3. All questions are to be attempted in legible handwriting on plane white A-4 size paper and upload the scanned copy of the assignments on student's portal.

ASSIGNMENT-I

Q1.	Discuss looping structures (For, While and Do-while) in Java with proper example.	5
Q2.	Explain different types of Inheritance with proper example.	5
Q3.	Differentiate between overloading and overriding methods with example.	5

ASSIGNMENT-2

Q1.	Explain Byte Stream classes with example.	5
Q2.	Explain various types of Events in Java.	5
Q3.	What do you understand by Frame? Write down a program to create frame.	5

Prepared By: Vinod Goyal Assistant Professor (CSE) DDE, GJUS&T, Hisar

Programme: Master of Computer Application

Course Name: Software Engineering
Code: MCA-14

Semester: 1st
Total Marks: 30

Important Instructions

- 1. Attempt all questions from each assignment given below.
- 2. Each assignment carries 15 marks.
- 3. All questions are to be attempted in legible handwriting on plane white A-4 size paper and upload the scanned copy of the assignments on student's portal.

ASSIGNMENT-I

Q1.	Define SRS. Explain different types of technique?	5
Q2.	Explain waterfall model in detail?	5
Q3.	Difference between cohesion and coupling.	5

ASSIGNMENT-2

Q1.	Write note on DFD and data dictionary?	5
Q2.	Write note on feasibility and oral presentation?	5
Q3.	Explain various types of testing technique?	5

Prepared By: Ritu Chopra Assistant Professor (CSE) DDE, GJUS&T, Hisar

Programme: Master of Computer Application

Course Name: Computer Networks and Internet Protocols
Code: MCA-15

Semester: 1st
Total Marks: 30

Important Instructions

- 1. Attempt all questions from each assignment given below.
- 2. Each assignment carries 15 marks.
- 3. All questions are to be attempted in legible handwriting on plane white A-4 size paper and upload the scanned copy of the assignments on student's portal.

ASSIGNMENT-I

Q1.	Define Network Topology. Explain different types of network topologies in detail.	5
Q2.	Give a complete description of ISO-OSI reference Model with proper diagram.	5
O3.	Discuss Flow Control Protocols in detail.	5

ASSIGNMENT-2

Q1.	What is IP addressing? Explain IPV4 and IPV6 in detail.	5
Q2.	Explain various routing algorithms in detail.	5
Q3.	Explain TCP, UDP and Internet Protocol.	5

Prepared By:
Neeraj Verma
Assistant Professor
Directorate of Distance Education.

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