MASTER OF COMPUTER APPLICATION

ASSIGNMENTS

MCA – 4th SEMESTER



(SESSON 2023-2024)

Centre for Distance and Online Education (CDOE)
Guru Jambheshwar University of Science &
Technology
Hisar - 125001

Course Name: IoT and Cloud Computing
Paper Code: MCA-41
Semester: 4th
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 andupload the scanned copy of the assignments on student's portal.

ASSIGNMENT-I

- Q1. Explain an information driven value chain for IoT with a neat diagram.
- Q2. Explain how gateways are used for data management, local applications and device management in IoT.
- Q3. What is the difference between Real Time and Local Analytics?

ASSIGNMENT-2

- Q1. Explain various IoT Applications. And also explain the Legal challenges in IoT.
- Q2. Explain about Wireless Technologies for the IoT and discuss about Edge Connectivity in IPBased Protocol for IoT.
- Q3. Write short notes on Arduino function libraries.

Prepared By: Dr. Ritu Assistant Professor (CSE) CDOE, GJUS&T, Hisar

Course Name: Mobile Application Development
Paper Code: MCA-42
Semester: 4th
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 andupload the scanned copy of the assignments on student's portal.

ASSIGNMENT-I

- Q1. What is operating system? Discuss various services provided by operating system.
- Q2. Discuss Android framework libraries with their classes.
- Q3. What is interpreter? explain it uses in program.

ASSIGNMENT-2

- Q1. Define Activity. Explain its lifecycle with diagram.
- Q2. What are the various functions of the Menu class.
- Q3. What is SQLite? What are the advantages of using SQLite? Explain various data types supported by SQLite?

Prepared By: Er. Vinod Goyal Assistant Professor (CSE) CDOE, GJUS&T, Hisar

Course Name: High Speed Network

Code: MCA-43(iv)

Semester: 4th

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 andupload the scanned copy of the assignments on student's portal.

ASSIGNMENT-I

- Q1. Explain throughput, delay and reliability in high-speed LAN.
- Q2. Explain Frame Relay protocol architecture in detail
- Q3. What is ATM adaption layer? Explain in detail.

ASSIGNMENT-2

- Q1. What do you understand by Wireless Network? Describe Bluetooth network in detail.
- Q2. Explain in detail GSM with its architecture.
- Q3. Describe in detail IPv6 with its header format. Also differentiate IPv4 and IPv6.

Prepared by: Mr. Neeraj Verma Assistant Professor (CSE) CDOE, GJUS&T, Hisar

Programme: MCA Course: Computer Graphics

Semester: 4th Total Marks=30

Paper Code: MCA-44(iv)

Important Instructions

I. Attempt all questions from each assignment given below.

II. Each assignment carries 15 marks.

III. All questions are to be attempted in legible handwriting on plane white A-4

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ASSIGNMENT-I

- Q1. Explain raster scan with neat and clean diagram in detail.
- Q2. Define DDA line drawing algorithm, also take a example to explain DDA algorithm.
- Q3. Explain mid-point algorithm? Write algorithm in your own words.

ASSIGNMENT-II

- Q1. Discuss about 2D transformation. Why we use 2D transformation in computer graphics?
- Q2. What do mean by polygon clipping algorithm, explain any polygon clipping algorithm with example.
- Q3 Explain parallel projection & their types with example.

Prepared by: Ms. Kapila Devi Assistant Professor (CSE) CDOE, GJUS&T, Hisar