



**CENTRE FOR DISTANCE AND
ONLINE EDUCATION
ALIGARH MUSLIM UNIVERSITY, ALIGARH**



ASSIGNMENT COVER PAGE

Session: 2021-2022

Name of Student: - _____

Father's Name and Address: - _____

Aadhaar No: - _____

Recent Mobile No: _____

Email-ID: - _____

Name of Course: Certificate in Information Technology (CIT)

Admission No: - _____ **Enrolment No:-** _____

Paper Title & Code: - _____

NECESSARY INSTRUCTIONS

1. Cover Page must be filled in Capital Letters. All Fields of the Form is compulsory to be filled.
2. Student will provide his/her own working Mobile Number and Email Id for registration and thesame will be used in his/her complete academic sessions.
3. The assignment should be written on A4 size paper and in neat and clean hand writing.
4. The cover page should be stapled at the front of each and every assignment.
5. Assignment has to be submitted at Johnson Compound (Near Exhibition Ground), AMU, Aligarh or Send the Soft Copy of Assignment on cdeonlineassignments@gmail.com
6. Incomplete Assignments will not be accepted.
7. The last date for submission of assignment **15 March, 2022.**

CENTRE FOR DISTANCE AND ONLINE EDUCATION

Aligarh Muslim University, Aligarh

Session 2021-2022

Certificate in Information Technology (CIT)

INFORMATION TECHNOLOGY (CIT-01)

ASSIGNMENT

Maximum Marks: 70

Attempt any three questions.

- 1.** What are the basic components of an information system? Write notes on role on information system
- 2.** What is computer memory? Explain the difference RAM and ROM.
- 3.** What is computer software? Write features of application software?
- 4.** What is computer? Explain 3 main components of a computer.

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Session 2021-2022

Certificate in Information Technology (CIT)

Operating Systems (CIT-02)

ASSIGNMENT

Maximum Marks: 70

Attempt any three questions.

- 1.** Write short notes the following with numerical example:
 - a. Process management
 - b. Memory management
 - c. CPU scheduling
 - d. Disk scheduling
- 2.** Differentiate between process and thread. Write a short note on generation of operating system.
- 3.** What is Process Control Block (PCB)? Explain the concept of context switching with suitable block diagram.
- 4.** Define deadlock, how deadlock prevention is different from deadlock avoidance. Explain the necessary condition for a system being in deadlock.

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Session 2021-2022

Certificate in Information Technology (CIT)

Computer Organization and Architecture (CIT-03)

ASSIGNMENT

Maximum Marks: 70

Attempt any three questions.

1. Write short notes on:
 - a. Computer architecture
 - b. Pin diagram of 8084
 - c. Computer generation
 - d. Pipelining
2. What are the three categories of computer architecture? What are some of the components of a microprocessor?
3. Write short notes on:
 - a. Different computer's hazards
 - b. Cache memory
 - c. Snooping protocol
4. Define Endianness of a computer system. Differentiate between little endian and big endian.

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Session 2021-2022

Certificate in Information Technology

FUNDAMENTALS OF NETWORKING AND INTERNET

(CIT-04)

ASSIGNMENT

Maximum Marks: 70

Attempt any three questions.

1. What do you mean by Network? Discuss the various type of connecting devices.
2. Define data communication. Explain different elements used for data communication.
3. Define switches. Discuss different types of switching.
4. Write a short note on
 - LAN
 - MAN
 - WAN

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Session 2021-2022

Certificate in Information Technology

Fundamentals of Database Management Systems (CIT-05)

ASSIGNMENT

Maximum Marks: 70

Attempt any three questions.

1. Explain the following with suitable block diagram:
 - a. Entity
 - b. Attributes
 - c. Relational schemas
 - d. Object oriented model
2. Define the concept of functional dependency, differentiate between file system and database system.
3. Write a short note on:
 - a. Normalization
 - b. ER diagram
 - c. Decompositions
4. What is database management system? How a database is different from database management system? Draw an ER diagram to explain the entity attribute relationship of entity employee.
