STUDENT'S ASSIGNMENTS

Certificate in Information Technology (CIT)

(DISTANCE MODE)

SESSION 2020-21

CENTRE FOR DISTANCE AND ONLINE EDUCATION

JAMIA MILLIA ISLAMIA, NEW DELHI – 110025

STUDENT ASSIGNMENTS

(SESSION 2020-21)

INSTRUCTIONS

The students are required to read carefully and follow the instructions given below:

• Submission of one complete Assignment in each course of the programme every year is compulsory.

• Completed Assignments on prescribed Assignment Booklet are to be submitted by hand or through post to the Study Centre/Programme Coordinator, CDOL as per dates mentioned in the Academic Calendar 2020-21 (http://jmi.ac.in/bulletinboard/academic-calendar/cdol).

• For Assignments Submitted after dates mentioned in the Academic Calendar, a late fee of Rs. 100/- per course assignment will be payable to through Demand Draft in favour of Jamia Millia Islamia, Payable at New Delhi.

• Write your name, roll number and other details as required on the cover page of Assignment Booklet.

• For your record you may keep a photocopy of your Assignment.

• Contact your Learner Support Centre/ Programme Coordinator to collect evaluated Assignments booklet

• Please go through your Programme Guide carefully for further details.

FUNDAMENTALS OF COMPUTING: CIT-101

Session: 2020-21   **M.Marks: 30**

NOTE: Attempt any three questions. All questions carry equal marks.

1. Explain various types of number system used in computer system.
2. Write down the uses of computer in Office automation.
3. What do you mean by Algorithm? Write algorithm to find the greatest number among given three numbers.
4. What are the differences between Object-oriented and Procedure-Oriented Programming?
5. Briefly Explain the following
   a. Information System Development
   b. Terms used in Information Technology

INTRODUCTION TO COMPUTER SYSTEM: CIT-102

Session: 2020-21   **M.Marks: 30**

NOTE: Attempt any three questions. All questions carry equal marks.

1. What are the different types of Network Topologies used in computer network? Explain with their advantages and disadvantages.
2. What is Operating System? Why do we need of it? Explain how does Real-Time Operating System different from Time-sharing Operating System?
3. Compare the properties of LAN, WAN and MAN and give at least two examples of each where these networks can be used.
4. What do you understand by Computer Virus? How does it affect the performance of Computer System? Write five ways to save Computer System from Computer Virus.
5. Briefly explain the following terms
   a. Software
   b. Booting of Computer
   c. Data Communication

PC APPLICATION SOFTWARE (MS_OFFICE): CIT-103

Session: 2020-21   **M.Marks: 30**

NOTE: Attempt any three questions. All questions carry equal marks.

1. Explain different types of functions with their syntax and example in Ms-Excel.
2. Briefly outlines the following views used in MS-Word 2007
   a) Draft View   b) Web Layout view   c) Print Layout View   d) Reading Layout View
3. Describe the significance of sorting and Filtering in MS-Access.
4. What are the differences between?
   a. Linked Object and Embedded Object.
   b. Workbook and Workspace.

     c.   Animation and Transition of slides

     d.   Data Integrity Problem and Data Security Problem

5.   Consider a MS-Access table with following attributes

EMPLOYEE (EMPID, EMPNAME, CITY, SALARY, AGE, YAER)

Write SQL view for

     a.   Employees whose earning is greater than 10000.

     b.   Employees who live in DELHI and earning greater than 15000

     c.   Employees who are living in MUMBAI and retired (retired age is 65)

     d.   Employees whose joining year is 2001 and age is less than 35

     e.   Employees who joined after 2012 or living in Haryana.

INTERNET AND MULTIMEDIA: CIT-104

Session: 2020-21   **M.Marks: 30**

NOTE: Attempt any three questions. All questions carry equal marks.

1.   How does Internet works? And how does internet addressing helps in connecting computers with each other's?

2.   What do you understand by Interactive and Hyper media?

3.   What are the applications of Multimedia? Also discuss hardware and authoring tools of multimedia.

4.   What is E-Commerce? Write down its advantages and disadvantages.

5.   Write brief note on

     a.   Web Page

     b.   WWW

     c.   DNS

COMPUTER PROGRAMMING: CIT-105

Session: 2020-21   **M.Marks: 30**

NOTE: Attempt any three questions. All questions carry equal marks.

1.   Explain various features of Object-Oriented Programming (OOP).

2.   What do you understand by function Overloading? Explain it with the help of an example.

3.   Explain the following decision-making statement with example

     a.   If...else

     b.   switch...case

     c.   nested if...else

4.   What is Inline function? Explain its importance in OOP with example.

5.   What is Pointer? Why do we need of it in C++ programming?