

# **Assignments**

**2018-19**

**Certificate in Information Technology  
CIT**

**Centre for Distance & Open Learning  
Jamia Millia Islamia  
New Delhi-110025**

## **STUDENT ASSIGNMENTS (SESSION 2018-19) 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 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 2018-19.  
(<https://www.jmi.ac.in/bulletinboard/academiccalendar/cdol>)
- For assignments submitted after dates mentioned in the Academic Calendar, a late fee of Rs. 100/- per assignment will be payable to CDOL through demand draft in favour of Jamia Millia Islamia, payable at New Delhi.
- For ex-students who failed to submit assignments during the course of the programme are required to submit Rs. 200/- per assignment to CDOL in the form of 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 own record you may keep a photocopy of your assignment.
- Contact your study centre/ Programme Coordinator to collect evaluated assignments.
- Please go through your Programme Guide carefully

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## FUNDAMENTALS OF COMPUTING: CIT-101

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**Session: 2018-19**

**Marks: 30**

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

1. Explain different types of Number system used in computer to represent data.
2. Write detail about Digital, Analog and Hybrid Computers with their applications
3. Explain the steps involve in solving any problem and write an algorithm to find greatest Number form given 'n' numbers.
4. Write a C++ program to calculate number of lines, words and characters in a given paragraph.
5. What do you understand by Information and information Technology Explain various terms used in information technology?

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## INTRODUCTION TO COMPUTER SYSTEM: CIT-102

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**Session: 2018-19**

**Marks: 30**

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

1. Explain different groups of memory used in computer system for storage of data.
2. Explain the key features which are to be kept in mind at the time of purchasing a PC and Software.
3. What do you understand by Operating System? Explain its functions in detail.
4. What are the different types of Network Topologies used in computer network? Explain with their advantages and disadvantages.
5. Write Short note on the following
  - i) Laser Printer
  - ii) Dum and Intelligent Terminal
  - iii) Optical Mark Recognition (OMR)
  - iv) Optical Bar Code (OBR)

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## PC APPLICATION SOFTWARE (MS\_OFFICE): CIT-103

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**Session: 2018-19**

**Marks: 30**

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

1. Write at least 20 shortcut used in MS-Word with their definition.
2. Explain Mathematical, Logical and Text Functions used in MS-Excel with their examples.
3. Write down the characteristics of a good Power point presentation. And briefly explain different views used for Presentation.
4. Explain different types of Database models.
5. Consider following MS-Access database
  - i) To show the detail of student who belongs to "DELHI"
  - ii) To show Roll No and Name of student who enrolled in "CIT" course.
  - iii) To show the detail of student who enrolled in "CIT" and lives in "MUMBAI"
  - iv) To show the details of students whose name starts with letter "A"
  - v) To show the name of students who are enrolled in "CIT" but not live in "MADRAS"

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## INTERNET AND MULTIMEDIA: CIT-104

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**Session: 2018-19**

**Marks: 30**

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

1. What is SMTP? How does it work?
2. What is Common Gateway Interface? Explain its working and interaction process.
3. Write brief introduction of Plasma monitor with its advantages and disadvantages.
4. Explain function and working principle of Web Browsers.
5. Explain working of Wireless LAN with its advantages.

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## COMPUTER PROGRAMMING: CIT-105

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**Session: 2018-19**

**Note: Attempt any three questions. All questions carry equal marks. Marks: 30**

1. Explain all types of Operators and Data types used in C and C++.
2. Briefly explain all types of loop used in C. And write a menu driven program in C++/C to calculate Area, Perimeter and Diagonal of a rectangle.  
INPUTS:           Choice, Length, Breadth.  
OUTPUTS:         Area, Perimeter, Diagonal  
MENU:            1. Area  
                  2. Perimeter  
                  3. Diagonal  
                  4. Exit
3. What are the differences between Call by Value and Call by reference? Write a C++/C program to determine statistics of some text in terms of *line-count*, *word-count*, and *character-count*. Use a function *Text \_Stat ()* to do the same. This function receives four parameters: *text*, *lc*, *wc*, *cc* where last three parameters *lc*, *wc* and *cc* are of integer type and are passed by reference.
4. Explain different mode of file opening in C, and Write a C program to read name and marks of 'n' number of students from user and store them in a file.
5. Explain the concept of Friend function in C++ and hence write a program to program to add member of two classes by using friend function.

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