

Assignments

2019-20

**Certificate in Computer Hardware & Network Technology
(CCHNT)**

Centre for Distance & Open Learning

Jamia Millia Islamia

New Delhi-11002

STUDENT ASSIGNMENTS (SESSION 2019-20)

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 2019-20.

(<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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Operating System - (CCH-101)

Session: 2019-20

Marks: 30

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

1. What is an operating system? Explain the different types of operating systems.
2. Draw and explain the state diagram of a process and label various transitions and also discuss about the Process Control Block (PCB).
3. Discuss the different types of memories used in computers also highlights advantages and disadvantages.
4. Differentiate between UNIX and Windows based operating systems.
5. What do you mean by directory structure? Also discuss different types of directory structures.

Fundamentals of Computer & Network Course - (CCH-102)

Session: 2019-20

Marks: 30

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

1. Discuss the different type of Extension Cards used in computer system.

2. How primary memory is used to improve the performance of computer system; List other hardware use to improve the performance of the system using memories.
3. What is a storage device? What is the common classification?
4. List out various input/output device with appropriate diagram and explain working principle of each device (At least 10 input and 10 output devices).
5. Discuss in networking devices (HUB, Switch, Repeater, Bridge, Router and gateway).

Computer Network (CCH-103)

Session: 2019-20

Marks: 30

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

1. What is Data Communication? Discuss CDMA, TDMA, FDMA and WDMA.
2. Explain the OSI reference model with neat diagram and also discuss the devices for each layer.
3. What is IP Address? Briefly explain different classes of an IP Address.
4. Discuss the TCP/IP model and also explain different protocols used by Transport and Network layer of TCP/IP.
5. Explain in detail: FTP, SMTP, TFTP, NFS, RPC and MIME.

Network Operating System (CCH-104)

Session: 2019-20

Marks: 30

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

1. Write down the steps to install Windows Server 2019, also discuss the key features of Windows Server 2019.
2. Explain different types of File permission Indicators and File Access mode used in UNIX.
3. What is MSDOS? Explain the difference between external and internal commands with the help of any 10 external and 10 internal DOS commands with syntax.
4. What is computer virus and how you will protect your computer from virus.
5. What is Cryptography? Discuss the different types of Cryptography and features in detail.

Trouble Shooting (CCH- 105)

Session: 2019-20

Marks: 30

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

1. Discuss the different types of Hardware and Software used in computer system.
2. What are the different categories of faults and how to deal with these faults?
3. Explain the different tools used to diagnose the problem?
4. List the input and output devices used in computer with the help of neat and clean diagram.
5. Write down in detail the steps for backup and recovery in Windows environment.