

CENTRE FOR DISTANCE EDUCATION

Aligarh Muslim University, Aligarh

Session 2018-2019

Certificate Course in Computer Hardware and Networking

COMPUTER HARDWARE

(CCHNT-01)

ASSIGNMENT

Maximum Marks: 25

a) Attempt any two questions.

- 1.** What is personal computer? Write the each steps of assembling and disassembling of PC?
- 2.** What is the Software? Differentiate between system software and application software. List the most important features of system software and tasks performed by the operating system.
- 3.** Explain any four of the following:
 - (a)** IP Address
 - (b)** MAC Address
 - (c)** Post Number
 - (d)** ARP and RARP
 - (e)** Trouble shooting

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ADVANCE COMPUTER HARDWARE AND INTERNET

(CCHNT-02)

ASSIGNMENT

Maximum Marks: 25

a) Attempt any two questions.

- 1.** What is Disk Quota? Write each steps how to turn on the disk quota management.
- 2.** Define the encryption? Explain how the encryption operation works. List the pros and cons of encryption.
- 3.** What do you understand by the term of “RAID”? Explain each RAID levels of hard disk. List the benefits and downsides of using RAID.

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COMPUTER NETWORKING

(CCHNT-03)

ASSIGNMENT

Maximum Marks: 25

a) Attempt any two questions.

1. Define the term of modulator and demodulator? Explain asynchronous and synchronous modems in computer network? Also list modulation techniques used in modem.
2. What is Internet Connection Sharing (ICS)? Explain the operations and limitations of Internet Connection Sharing (ICS).
3. Why Active Directory used in computer network? How to configure windows active directory and domain controller?

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ADVANCE COMPUTER NETWORKING

(CCHNT-04)

ASSIGNMENT

Maximum Marks: 25

a) Attempt any two questions.

1. Explain any two of the followings:
 - a) Roaming profile and local profile
 - b) Local security policies
 - c) How Terminal Services Licensing works
2. Define term of DHCP? What are the similarities and dissimilarities of DHCP and DNS? Explain the working of DNS?
3. What are Terminal Services Processes and Interactions? How Remote Desktop Web Connection works?

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BASIC ELECTRONICS (ELECTRONIC COMPONENTS)

(CCHNT-05)

ASSIGNMENT

Maximum Marks: 25

a) Attempt any two questions.

1. Explain the followings:
 - a) Resistance in detail
 - b) Capacitors and complex permeability of the dielectric materials
 - c) Diode and silicon diode V-I characteristic curve
2. What is a transformer? Explain single phase voltage transformer.
3. What is Transistors? Explain the types of transistors and also explain PNP & NPN transistors in detail.

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COMPUTER FUNDAMENTALS & DIGITAL ELECTRONICS

(CCHNT-06)

ASSIGNMENT

Maximum Marks: 25

a) Attempt any two questions.

1. What do you mean by cache Memory? Explain each levels of cache memory? How the performance of the cache memory is frequently measured in terms of quantity called Hit ration?
2. What is Number System? What are four types of Number System? Explain each number system with suitable example?
3. Explain any three of the following:
 - a) Memory and Register reference
 - b) Associative Mapping and Set- associative memory
 - c) Application of Cache Memory
 - d) Explain sign bit and unsigned bit
