PAPER ID-411463

Roll No:

MCA-INT
(SEM I) THEORY EXAMINATION 2021-22
FUNDAMENTALS OF COMPUTER

Time: 3 Hours *Total Marks: 70*

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2*7 = 14

a.	Why computer is known as data processing system?
b.	Name the few protocols used for email on the internet.
c.	Differentiate between LAN, WAN and MAN.
d.	Why operating system is important for computer system?
e.	What is an IP address? Write down the different classes of IP Address.
f.	How can you measure the quality of algorithm?
g.	Define Mainframe computer? Give the name of any one mainframe computer.

SECTION B

2. Attempt any *three* of the following: 7*3 = 21

a.	Draw a block diagram of basic components of a computer system. Explain each component of computer system.
b.	Define algorithm and its characteristics. Write algorithm to find out the factorial of a given number?
c.	What is an Operating System? Explain all the types of operating systems.
d.	Explain different functions of each layer of the OSI model with the help of diagram.
e.	Discuss the architecture and functioning of the internet.

SECTION C

3. Attempt any *one* part of the following: 7*1 = 7

a.	Explain different generations of computers.
b.	Write short notes on: (a) FTP (b) SMTP (c) TELNET

4. Attempt any *one* part of the following: 7*1 = 7

a.	Explain different topologies in computer networks with the help of diagram.
b.	What is flow chart? Draw a flow chart for find out maximum no. among three numbers.

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5. Attempt any *one* part of the following: 7*1 = 7

a.	What do you mean by internet? Explain main characteristics and services of internet.
b.	Define and differentiate between uniprogramming and multiprogramming system. What are their relative advantages and disadvantages?

6. Attempt any *one* part of the following: 7*1 = 7

a.	Explain the term Multimedia and different component of multimedia with the help of an example.
b.	Write four differences between each of the following: (a) impact and nonimpact printers (b) volatile and non-volatile memory

7. Attempt any *one* part of the following: 7*1 = 7

a.	Write four differences between each of the following: (a) Router and Gateway (b) Packet Switching and Circuit Switching
b.	What is Cache Memory? How it reduces the mismatch of processor and main memory speed?

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