



PAPER ID-411463

Printed Page: 1 of 2
Subject Code: RCAI103

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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