No. of Printed Pages: 6

CERTIFICATE IN INFORMATION TECHNOLOGY (CIT)

Term-End Examination

December, 2024

CIT-001: FUNDAMENTALS
OF COMPUTER SYSTEMS

Time: 2 Hours Maximum Marks: 50

(Weightage: 75%)

Note: All the questions from Section A are compulsory. Answer any three questions from Section B.

Section—A

- Answer the following multiple choice questions.
 Only one of the answers is correct: 10×1=10
 - (a) Information security is not concerned with
 - (i) Confidentiality

| | (ii) | Availability |
|-----|-------|---------------------------------------|
| | (iii) | Integrity |
| | (iv) | Affordability |
| (b) | Con | nputer display is a/an |
| | (i) | Input device |
| | (ii) | Output device |
| | (iii) | Storage device |
| | (iv) | Printing device |
| (c) | Whi | ch memory device has optical storage |
| | med | hanism? |
| | (i) | Hard Disk |
| | (ii) | CD-ROM |
| | (iii) | Magnetic Tape |
| | (iv) | Pen-drive |
| (d) | Whi | ch of the following is a part of CPU? |
| | (i) | Hard Disk |
| | (ii) | General Register |
| | (iii) | Program |
| | (iv) | Network Interface Card |

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| (e) | | ch of the following is an example of an out device? | |
|-----|--|---|--|
| | (i) | Mouse | |
| | (ii) | Keyboard | |
| | (iii) | Plotter | |
| | (iv) | Bar Code Reader | |
| (f) | The | delay between job-submission and job- | |
| | completion is called | | |
| | (i) | Execution Time | |
| | (ii) | Turnaround Time | |
| | (iii) | Compilation Time | |
| | (iv) | Waiting Time | |
| (g) | Which of the following statements prevents | | |
| | any | further statements of a program from | |
| | being executed? | | |
| | (i) | break | |
| | (ii) | continue | |
| | (iii) | switch | |
| | (iv) | case | |

| (h) | Fiber Distributed Data Interface (FDDI) is | | |
|-----|--|---------------------------------------|--|
| | an example of | | |
| | (i) | Bus Topology | |
| | (ii) | Star Topology | |
| | (iii) | Ring Topology | |
| | (iv) | Tree Topology | |
| (i) | Den | ial-of-Service (DoS) attack | |
| | (i) | Sends large volume of traffic to a | |
| | | critical network element | |
| | (ii) | Alters data packets being transmitted | |
| | (iii) | Sends sensitive information from | |
| | | inside your organization | |
| | (iv) | Executes program file randomly | |
| (j) | Inte | ernet is an example of | |
| | (i) | WPAN | |
| | (ii) | MAN | |
| | (iii) | LAN | |
| | (iv) | WAN | |

| 2. | (a) | What is a LAN ? Explain th |
|----|-----|---|
| | | characteristics of it. |
| | (b) | What is memory hierarchy? Explain it |
| | | need. |
| | | Section—B |
| No | te: | Answer any <i>three</i> from the following. |
| 3. | (a) | Draw a flowchart to find the sum of thre |
| | | given numbers. |
| | (b) | What is Wireless Transmission ? Briefly |
| | | explain Radiowave and Microwav |
| | | communications. |
| 4. | (a) | What is the need of network security |
| | | Briefly explain various elements of |
| | | network security. |
| | (b) | Discuss the functions of the following: |
| | | (i) Switch |

(ii) Router

- 5. (a) What is computer virus? Classify different types of computer viruses. 5
 - (b) Write a C program to find whether a given number is odd or even. 5
- 6. (a) What is parallel-transmission? Explain its advantages.
 - (b) What is an Operating System? Briefly explain any four functions of an operating system.