

2024

INFORMATION TECHNOLOGY

(Discipline Specific Core)

Paper Name: Fundamental of Computers

Paper Code: BIT-DSC-141

Full Marks: 45

Time: Two Hours

(The figures in the margin indicate full marks for the questions)

Answer in English

1. Answer the following multiple-choice questions **1x4=4**

- (a) Operating system is a _____ software.
- i. Application
 - ii. System
 - iii. Memory
 - iv. None of the above
- (b) Which of the following is not a part of computer security?
- i. Confidentiality
 - ii. Identity
 - iii. Integrity
 - iv. Availability
- (c) Which of the following computer memory is fastest?
- i. Register
 - ii. Cache
 - iii. RAM
 - iv. ROM

(d) 8 bits = _____ byte/bytes

- i. 1
- ii. 2
- iii. 3
- iv. 4

2. Answer the following questions briefly 2x3=6

- (a) What are the differences between LAN and MAN?
- (b) Define internet and intranet.
- (c) What is the difference between hardware and software?

3. Answer the following questions (any three) 5x3=15

- (a) What are the different types of computer security?
- (b) What do you mean by computer firewall? Why it is important for security? Explain briefly.
- (c) Explain the generation of computer.
- (d) Explain briefly about the computer memory.
- (e) What is virus? What are the different types of virus?

4. Answer the following questions (any two) 10x2=20

- (a) List out at least five techniques for threat prevention.
- (b) Explain about the batch operating system. What are the advantages and disadvantages of it?
- (c) Explain different storage units of a computer system.
- (d) Describe briefly about the logical structure of HDD.
Why scanning of virus is important in HDD? Explain.
