

Department of Computer Science & IT

Mangaldai College (Autonomous)

Sessional Examination – 2026

FYUGP BCA 6th Semester

Sub : Information Security and Cyber laws

Time : 2 hours

Full Marks : 40

1. Answer the following questions: 1x5=5
- a. Which of the following is a type of cipher?
 - i) Compiler
 - ii) Substitution Cipher
 - iii) Loader
 - iv) Interpreter
 - b. Which of the following is a type of malware?
 - i) Firewall
 - ii) Virus
 - iii) Protocol
 - iv) Cache
 - c. Buffer overflow is related to:
 - i) Database Security
 - ii) Program Security
 - iii) Network Security
 - iv) Cryptography
 - d. In database security, integrity means:
 - i) Data secrecy
 - ii) Data availability
 - iii) Data accuracy
 - iv) Data duplication
 - e. Which of the following protects data accuracy?
 - i) Confidentiality
 - ii) Integrity
 - iii) Availability
 - iv) Encryption
2. Answer any three of the followings: 5x3=15
- a. Define Computer Security and explain its importance.
 - b. Explain the basic components of security (CIA Triad).
 - c. Explain Block Cipher and Stream Cipher.
 - d. What is Data Encryption in database security?
 - e. What is cryptography? Explain substitution and transposition cipher.
3. Answer any two of the followings: 10x2=20
- a. Explain Multilevel Security and Categorization of Data and Users.
 - b. Discuss Symmetric and Asymmetric Encryption with examples.
 - c. Discuss Malicious Codes, Threats, and their control mechanisms.
 - d. Explain Integrity in Database Security and methods to maintain it.