

(FOR THE CANDIDATES ADMITTED

SUBJECT CODE **23 UBC 6E6**

DURING THE ACADEMIC YEAR 2023-24 ONLY)

REG.NO.

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : MAY– 2026

B.C.A.

MAXIMUM MARKS: 75

VI SEMESTER

TIME : 3 HOURS

PART – III
INFORMATION SECURITY

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(K1)

1. Plain text converted into unreadable form is called ____
a) Key b) Algorithm c) Cipher text d) Hash
2. Which cryptographic technique rearranges the positions of characters?
a) Substitution b) Transposition c) Hashing d) Compression
3. An attempt to make network resources unavailable is called ____
a) Phishing b) Spoofing c) Sniffing d) Denial of Service
4. People who illegally break into systems for malicious purposes are called ____
a) Hackers b) Crackers c) Developers d) Analysts
5. Which of the following is a key concern in electronic voting systems?
a) Data privacy and security b) Screen resolution
c) Internet speed d) Software updates

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

6. Which of the following is the main goal of computer security?
7. DES belongs to which type of cryptography?
8. State the use of Firewall.
9. Which flaw allows attackers to overwrite memory?
10. Define Cyber stalking.

(CONTD 2)

SECTION – B

(5 x 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.

11. a) Why do we need security ?
(OR)
b) Describe the different types of attacks.
12. a) Write short notes on symmetric key cryptography.
(OR)
b) Describe Digital Signature.
13. a) What is intrusion detection?
(OR)
b) Describe Firewalls.
14. a) Write short notes on Hackers and attackers.
(OR)
b) What is secure software engineering?
15. a) What is the classifications of Cyber crimes?
(OR)
b) Write short notes on Electronic Voting.

SECTION – C

(5 X 8 = 40 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.

16. a) Explain Substitution Techniques in detail.
(OR)
b) Discuss Transposition Techniques.
17. a) How does DES work? Explain.
(OR)
b) Discuss RSA algorithm in detail.
18. a) Write short notes on : i) Password Management
ii) Viruses and Related Threats
(OR)
b) Explain Denial of Service Attacks in detail.
19. a) Discuss the Technical Trends affecting Software Security.
(OR)
b) Explain defensive programming and its Techniques in detail.
20. a) Discuss the legal perspective cyber security.
(OR)
b) Explain the concept of privacy and mobile code in detail.