

**NGM COLLEGE (AUTONOMOUS) POLLACHI
END-OF-SEMESTER EXAMINATIONS: DECEMBER-2022**

B. Sc-Computer Science (Aided & SF)

MAXIMUM MARKS: 70

V SEMESTER

TIME: 3 HOURS

PART III

CYBER SECURITY

SECTION – A (10 X1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS

MULTIPLE CHOICE QUESTIONS

(K1)

1. The _____ is the practice of protecting critical systems and assets again physical and cyber threats.

(a) Infrastructure Security	(b) Cyber Security
(c) Security Standards	(d) Security Models
2. Which of the following is encrypted text transformed from plain text using an encryption algorithm?

(a) Plain Text	(b) Cipher Text	(c) Crypto Text	(d) Cryptology
----------------	-----------------	-----------------	----------------
3. A _____ is a network security device that monitors traffic to or from your computer.

(a) Hub	(b) IDS	(c) Firewalls	(d) Network Security
---------	---------	---------------	----------------------
4. In Network Management system, the term that is responsible for controlling access to network based on predefined policy is called _____

(a) Fault Management	(b) Secured Management
(c) Security Management	(d) Active Management
5. Internet Banking refers to. _____

(a) Operation of accounts through internet	(b) Operation of accounts through ATM
(c) Operation of accounts through NEFT	(d) Both (a) and (b)

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. Define Network Security.
7. What is Cryptography?
8. What is Host-based IDS?
9. Mention two goals of network management.
10. What is Email Security?

(CONTD 2)

SECTION – B**(5 X 4 = 20 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) List and explain the Five Components of a security plan
(OR)
b) What are the main Components of Infrastructure? Explain.
12. a) Write notes on Data Encryption Methods.
(OR)
b) Illustrate Public Key Cryptography with suitable diagram.
13. a) Compare Anomaly Vs Signature Detection.
(OR)
b) Write short notes on (i) Malicious Software (ii) Firewalls
14. a) Describe the Network Management Infrastructure with neat diagram.
(OR)
b) List and explain the Phases of Disaster Recovery Plan.
15. a) Why do you need email policy? Explain
(OR)
b) Explain University Email Policy.

SECTION – C**(4 X 10 = 40 MARKS)****ANSWER ANY FOUR OUT OF SIX QUESTIONS.****(16TH QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS FROM Q.NO: 17 TO 21)****(K4) OR (K5)**

16. List and explain Network Security Fundamentals.
17. Illustrate Security attacks with suitable example.
18. Sketch Data Warehouse Security Control with diagram.
19. List and explain any Five Intrusion Detection Tools.
20. Explain briefly the Simple Network Management Protocol.
21. Explain network security layered approach.