

**FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2020 ONLY)**

20UIT518

REG.NO

NGM COLLEGE (AUTONOMOUS) POLLACHI

END-OF-SEMESTER EXAMINATIONS: DECEMBER-2022

**B. Sc-Information Technology
V SEMESTER**

**MAXIMUM MARKS: 70
TIME: 3 HOURS**

**PART III
INFORMATION SECURITY**

**SECTION – A (10 X1 = 10 MARKS)
ANSWER THE FOLLOWING QUESTIONS
MULTIPLE CHOICE QUESTIONS**

(K1)

1. Which of the following is defined as an attempt to steal, spy, damage or destroy computer systems, networks, or their associated information?
a) Cyber attack b) Computer security c) Cryptography d) Digital hacking
2. What is the existence of weakness in a system or network is known as?
a) Attack b) Exploit c) Vulnerability d) Threat
3. Which of them is not an attack done in the network layer of the TCP/IP model?
a) MITM attack b) DoS attack
c) Spoofing attack d) Shoulder surfing
4. Which of them is not a major way of stealing email information?
a) Stealing cookies b) Reverse Engineering
c) Password Phishing d) Social Engineering
5. Which of the following type of data, phishers cannot steal from its target victims?
a) Bank details b) Phone number
c) passwords d) apps installed in the mobile

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. Define Cryptography.
7. What is meant by IDEA?
8. Define MD5.
9. What is meant by Digital Certificates?
10. Define 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) Describe the Steganography.
(OR)
b) Discuss the Plain text, Cipher text and Encryption.
12. a) Explain symmetric key Algorithms
(OR)
b) Examine the Blowfish algorithm with example.
13. a) Write note on Digital Signatures.
(OR)
b) Apply the concept of Knapsack algorithm in security.
14. a) Describe the Cross certification. Give suitable format
(OR)
b) Examine the PKCS and its parameters.
15. a) Examine the security mechanisms with examples.
(OR)
b) Discuss the basic concept of SSL.

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. Evaluate the concept of Encryption and Decryption with neat diagram.
17. Analysis the DES algorithm with neat diagram.
18. Explain the concept of RSA algorithm.
19. Analyze the PKIX model with neat diagram.
20. Discuss the features of Transport Layer Security with its protocol.
21. Outline the WAP Security in GSM 3G.

