

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

20 UBC 624

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : MAY - 2023

COURSE NAME: B.C.A

MAXIMUM MARKS: 70

SEMESTER: VI

TIME : 3 HOURS

PART - III

INFORMATION SECURITY

SECTION - A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

(K1)

1. The _____ model is 7-layer architecture where each layer is having some specific functionality to perform.
a) TCP/IP b) Cloud c) OSI d) OIS
2. What is the another name for Message authentication codes?
a) cryptographic codebreak b) cryptographic codesum
c) cryptographic checksum d) cryptographic checkbreak
3. Which of the following is an example of passive online attack?
a) Phishing b) Social Engineering c) Spamming d) Wire sniffing
4. What is the main goal of ethical hacking?
a) To cause damage to a system b) To gain unauthorized access to a system
c) To identify and fix security vulnerabilities d) To steal sensitive information
5. Mobile code is any _____.
a) program b) application c) content d) all of the above

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.

(K2)

6. What is the reason of slow performance in cryptography algorithm?
7. Define the purpose of RSA algorithms..
8. What is meant by firewalls?
9. Define Buffer overruns.
10. Define Cyber Stalking.

SECTION – B

(5 X 4 = 20 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) Describe Security Trends.

(OR)

- b) Compare Block Ciphers and Stream Ciphers.

(CONTD.....2)

12. a) Examine the cryptography Protocols.

(OR)

b) Discuss the important concept of DES Symmetric Key Algorithms.

13. a) Describe Intrusion Detection is network security.

(OR)

b) Comment on Distributed Denial of Service Attacks

14. a) List the Security Failures and explain its reason.

(OR)

b) Describe buffer overruns and other implementation flaws.

15. a) Examine the classification of Cybercrimes

(OR)

b) Describe the basics of Electronic Voting.

SECTION - C

(4 X 10 = 40 MARKS)

ANSWER ANY FOUR OUT OF SIX QUESTIONS

**(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS
(FROM Qn. No : 17 to 21) (K4 (Or) K5)**

16. Discuss Hash Functions and cryptography algorithms.

17. Explain the three important concepts of OSI Security Architecture.

18. Compare RSA and DSA Public key Algorithm.

19. Summarise the Viruses and Related Threats in Network security.

20. Outline the defensive programming and its techniques.

21. Summarise the Cyber Stalking and Obscenity in Internet.

ETHICAL PAPER