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(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2021 ONLY)

21UBC6E3

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS : MAY-2024

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)

- _____ involves the passive capture of a data unit and its subsequent retransmission to produce an unauthorized effect
a) Replay b) denial of service c) masquerade d) modification of messages
- Which one of the following is a cryptographic protocol used to secure HTTP connection?
a) stream control transmission protocol (SCTP) b) transport layer security (TLS)
c) explicit congestion notification (ECN) d) resource reservation protocol
- _____ individual who is not authorized to use the computer and who penetrates a system s access controls to exploit a legitimate users account.
a) Masquerader b) Misfeasor c) Clandestine user d) Intruder
- A hacker who gains access to systems with a view to fixing the identified weakness_____.
a) Black hat hackers b) White hat hackers c) Gray hat hackers d) script hackers
- Which one option is not a type of cybercrime?
a) Data theft b) Forgery c) Damage to data and systems d) Installing antivirus for protection

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.

(K2)

- List the various types of passive attacks.
- Explain how does hash function work.
- Comment on classes of intruders
- What is called secure software engineering?
- Define Cyber Security.

SECTION – B

(5 X 4 = 20 MARKS)

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

- a) Examine the terms of OSI Security Architecture.
(OR)
b) Differentiate Block Ciphers and Stream Ciphers.

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12.a) Explain the requirements of Message Authentication Codes.

(OR)

b) Discuss the basic principles of Symmetric Key Algorithm.

13.a) Demonstrate how to manage the password in network?

(OR)

b) Classify the various types of Firewall explain.

14.a) Differentiate between the Hackers and Crackers.

(OR)

b) Identify the various types of defensive programming in detail.

15.a) Categorize the different types of cyber crime with an example

(OR)

b) Explain the legal aspects of cyber law

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. Classify the security attack used in X.800 and RFC 2828.

17. How to construct the thread model? Explain the common security goals.

18. Distinguish between RSA and DSA algorithms.

19. Elucidate the distributed Denial of Service attacks.

20. List the technical trends affecting the software security.

21. Explain Cyber stalking and its types. List protective measures against cyber stalking..
