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0308M142

Candidate's Seat No : _____

B.Sc. Sem.-6 Examination

CC - 311

Computer Science

August 2021

Time : 2-00 Hours]

[Max. Marks : 50

**Instructions: All Questions in SECTION I carry equal marks.
Attempt any THREE questions in SECTION I
Question 9 in SECTION II is COMPULSORY**

SECTION I

- Q-1 Write the following.**
- (A) What is Security? Explain computer security models and terms in detail. (07)
- (B) Explain the types of security attacks in detail. (07)
- Q-2 Write the following.**
- (A) What is the cyber security? Explain the need of cyber security. (07)
- (B) Explain the basic of computer and DOS commands in detail. (07)
- Q-3 Write the following.**
- (A) Explain all the cyber security model in detail. (07)
- (B) Explain computer security, information security, and information assurance in detail. (07)
- Q-4 Write the following.**
- (A) Explain firewall concept in detail. (07)
- (B) Explain interrelated components of the computing environments. (07)
- Q-5 Write the following.**
- (A) Explain security governance in detail. (07)
- (B) Explain management models, roles and its functions in detail. (07)
- Q-6 Write the following.**
- (A) Explain cryptography with public and private key. (07)

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- (B) What is algorithm? Explain the algorithm of public key and private key. (07)
- Q-7 Write the following.
- (A) What is cybercrime? Explain the history of cyber crime. (07)
- (B) Explain cyber crime with information security. (07)
- Q-8 Write the following.
- (A) Give the classification of cyber crime with Indian perspective. (07)
- (B) Give the example of cyber crime with case study. (07)

SECTION II

- Q-9 MCQ (Attempt any eight) (08)
- (1) In which of the following, a person is constantly followed/chased by another person or group of several peoples?
A) Phishing B) Bulling C) Stalking D) Identity theft
- (2) Which one of the following can be considered as the class of computer threats?
A) Dos Attack B) Phishing C) Soliciting D) Both A and C
- (3) Which of the following usually observe each activity on the internet of the victim, gather all information in the background, and send it to someone else?
A) Malware B) Spyware C) Adware D) All of the above
- (4) It can be a software program or a hardware device that filters all data packets coming through the internet, a network, etc. it is known as the _____:
A) Antivirus B) Firewall C) Cookies D) Malware
- (5) Which cyber security principle states that Security mechanisms should be as simple and small as possible?
A) Fail-safe defaults B) Least Privilege
C) Economy of mechanism D) Open Design
- (6) Which cyber security principle principle restricts how privileges are initialized when a subject or object is created?
A) Fail-safe defaults B) Least Privilege
C) Complete mediation D) Open Design

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- (7) "If the boss demands root access to a UNIX system that you administer, he/she should not be given that right unless he/she has a task that requires such level of access" is the example of which cyber security principle?
A) Separation of Privilege B) Least Privilege
C) Complete mediation D) Open Design
- (8) Which principle states sometimes it is more desirable to record the details of intrusion than to adopt a more sophisticated measure to prevent it?
A) Work Factor B) Psychological acceptability
C) Least Common Mechanism D) Compromise Recording
- (9) _____ is the process or mechanism used for converting ordinary plain text into garbled non-human readable text & vice-versa.
A) Malware Analysis B) Exploit writing
C) Reverse engineering D) Cryptography
- (10) When plain text is converted to unreadable format, it is termed as _____
A) rotten text B) raw text C) cipher-text D) ciphen-text
- (11) Cryptographic algorithms are based on mathematical algorithms where these algorithms use _____ for a secure transformation of data.
A) secret key B) external programs C) add-ons D) secondary key
- (12) Cryptography can be divided into _____ types.
A) 5 B) 4 C) 3 D) 2
- (13) The first computer virus is -----
A) I Love You B) Blaster C) Sasser D) Creeper
- (14) McAfee is an example of _____
A) Photo Editing Software B) Quick Heal C) Virus D) Antivirus
- (15) Which of the following is known as Malicious software?
A) illegalware B) badware C) malware D) maliciousware
- (16) VIRUS stands for
A) Very Intelligent Result Until Source
B) Very Interchanged Resource Under Search
C) Vital Information Resource Under Siege
D) Viral Important Record User Searched
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