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SPECIALIZATION IN CYBER SECURITY (CS)

EXAMINATION : JUNE-2025

SEMESTER - IV

Sub: Cyber Security II (BCA –442-18/BCA-CS-442-20)

Date : 04/06/2025

Total Marks : 60

Time: 2.00 pm To 4.30 pm

Instructions:

1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labeled diagrams wherever necessary.

Q.1. Fill in the blanks.

(5)

1. Computer _____ means computer, computer system, computer network, data, computer data base or software.
a) Resource
b) Data
c) System
d) Network
2. _____ uses the method of capturing and recording user keystrokes.
a) Keylogger
b) Backdoor
c) Root kit
d) Trojan
3. _____ is a well-known Web application vulnerability that occurs when a Web page displays user input — via JavaScript — that isn't properly validated.
a) Cross-site scripting
b) Code Injection
c) SQL injection
d) Header Injection
4. Cheque_____ is when in-transit or non-existent cash is recorded in more than one bank account.
a) kiting
b) booster
c) fraud
d) duplication
5. _____ is the process of querying active systems to grab information on network shares, users, groups and specific applications.
a) Scanning
b) Obtaining Access
c) Reconnaissance
d) Maintaining Access

Q.2. State True/False.

(5)

1. The private key and the public key are unique to the subscriber and constitute a functioning key pair.
2. Exploits attack specific security vulnerabilities.
3. Vandalism is a attack, where an ATM machine is deliberately damaged and/or the card reader is jammed preventing the customer's card from being inserted.
4. Two electronic records can produce the same hash result using the algorithm.
5. Code injector software "injects" a given URL in place of certain URLs when you try to visit them in your browser.

Q.3. Answer the following. (Solve any 5) (10)

1. Define the term “Public Key”.
2. Define the term “Trojan”.
3. Define the term “Computer Resource”.
4. Write syntax to create user account in Linux.
5. What is the use of Airodump?
6. Define the process of “Placement” in money laundering.

Q. 4. Answer the following in detail. (Solve any 6) (30)

1. Explain in detail “Money Laundering” process.
2. Write a short note on “Defense in Depth” model
3. Write a short note on SQL Injections.
4. Write a short note on Penetration Testing.
5. Explain the following types of ATM Frauds; a) card jamming, b) card skimming.
6. Explain any two types of Virus.
7. Explain the carrier objects used by Malwares

Q. 5. Answer the following in detail. (Solve any 1) (10)

1. Explain any 5 types of ATM Fraud.
 2. Explain any 5 types of Malwares.
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