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SPECIALIZATION IN CYBER SECURITY (CS)

EXAMINATION : MAY - 2024

SEMESTER - IV

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

Date : 29/05/2024

Total Marks : 60

Time: 10.00 am to 12.30 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. "Electronic _____" means data, record or data generated, image or sound stored, received or sent in an electronic form or micro film or computer generated micro fiche.
a) Record
b) Gazette
c) database
d) form
2. A computer _____ is a self-replicating computer program that uses a network to send copies of itself to other nodes and it may do so without any user intervention.
a) virus
b) worm
c) rootkit
d) trojan
3. _____ show the name of the current working directory.
a) pwd
b) list
c) path
d) who
4. Cheque _____ is when in-transit or non-existent cash is recorded is more than one bank account.
a) uninsured
b) booster cheque
c) credit cheque
d) kitting
5. _____ is a computer networking utility for reading from and writing to network connections on either TCP or UDP.
a) netcat
b) nmap
c) nslookup
d) ping

Q.2. State True/False.

(5)

1. A trick message warning of a virus that doesn't actually exist is an example of Hoax.
2. A booster cheque is a non sufficient fund cheque used to make a payment to a credit card account.
3. Cross Site Scripting is used to capture the live sessions from the web browser.
4. mv command is used to rename the existing file in Linux operating system.
5. Electronic form means data, record or data generated, image or sound stored, received or sent in an electronic form or micro film or computer generated micro fiche.

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

(10)

1. Define the term "Digital Signature".
2. Define the term "Public Key".
3. Define the term "Electronic Gazette".
4. What do you mean by Cheque kitting?
5. State the characteristics of "Polymorphic Virus".
6. Define the term "Trojan".

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

1. Explain the stages involved in money laundering.
2. Explain the SQL injection attack with example.
3. Explain defense-in-depth security model.
4. Explain in 2 ATM related frauds.
5. Write a short note on “Proactive Approach”.
6. Explain the process of wireless network hacking technique.
7. Explain in detail “Penetration Testing Process”.

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

1. Define the term “Virus”. Explain any 4 types of virus.
 2. Explain any five types of Banking related fraud.
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