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SPECIALIZATION IN CYBER SECURITY (CS)
EXAMINATION : DECEMBER - 2024/JANUARY-2025
SEMESTER - IV
Sub: Cyber Security II (BCA –442-18/BCA-CS-442-20)

Date : 02/01/2025

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) media
d) database
2. "_____ Key" means the key of a key pair used to create a digital signature.
a) Public
b) Private
c) Symmetric
d) secret
3. 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) bot
4. A directory _____ attack is browsing a site and looking for clues about the server's directory structure.
a) harvesting
b) crawling
c) traversal
d) phishing
5. _____ show the name of the current working directory.
a) pwd
b) list
c) path
d) who

Q.2. State True/False.

(5)

1. "Electronic form" with reference to information means any information generated, sent, received, or stored in media, magnetic, optical, computer memory, micro film, computer generated micro fiche, or similar device.
2. A secure system means computer hardware, software, and procedure that are reasonably secure from unauthorized access and misuse.
3. A wabbit is also like a virus that replicates itself, but it does not have any instructions to email itself or pass itself through a computer network in order to infect other machines.

4. Code injection can also be carried out against back-end SQL databases — an attack known as SQL injection.
5. mv command is used to rename the existing file in Linux operating system. mv command is used to rename the existing file in Linux operating system.

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

1. Define the term “Salami Attack”.
2. Define the term “Polymorphic Virus”.
3. What is a “Booster Cheque”?
4. Give function of the Controller.
5. What is SSID?
6. Define the term “Digital Signature”.

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

1. Explain the stages involved in money laundering.
2. Write a short note on the “Reactive Approach”.
3. Explain the defense-in-depth security model.
4. Explain any five types of ATM fraud.
5. Explain the following attacks: a) Code injection b) Cross Site Scripting.
6. Explain in detail the stages involved in penetration testing.
7. Explain the process of wireless network hacking technique.

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 malwares in detail.
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