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EXAMINATION : JUNE / JULY - 2022
SEMESTER - II
Sub: Cyber Security - I (BCA-CS-245-20)

Date : 05/07/2022
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 labelled diagrams wherever necessary.
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Q.1. Fill in the blanks.
(5)

1. File Transfer protocol is associated with _____ Layer.

a) Transport	b) Application
c) Session	d) Data-Link
2. In Class C Network, Maximum number of host PC can be accommodated are _____.

a) 32	b) 256
c) 64	d) 220
3. Existence of weakness, design or implementation error that can lead to an unexpected, undesirable event compromising the security of the system is called as _____.

a) Threat	b) Exploit
c) Vulnerability	d) Attack
4. First stage involve in the Reverse Engineering process is _____.

a) Prescreening	b) Disassembly
c) Assembly	d) compilation
5. In PING command _____ option is used to set the packet size.

a) -t	b) -p
c) -k	d) -i

Q.2. State True/False.
(5)

1. SNMP protocol is associated with Transport Layer.
2. Subnet masking is done to separate the network logically.
3. Fingerprinting is done to determine the remote OS.
4. Individual who work both offensively and defensively at various times as per their benefits is known as White hat hackers.
5. Windows OS stores the password in passwd file.

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

1. Define the term “Threat”.
2. Define the term “Social Engineering”.
3. Define the term “Asymmetric key cryptography”.
4. Explain the term “Black hat hacker”.
5. Explain the term “Broadcast Network”.
6. Explain Teardrop attack.

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

1. What is “Port Scanning”. Explain any two types of port scanning.
2. State the advantages and disadvantages of Honeypots.
3. Explain in detail TCP-IP OSI Model.
4. What is DoS attack? Explain any two types of Denial of Service attack.
5. Write a short note on “TCP 3-Way Handshake”.
6. Write a short note on “Reverse Engineering”.
7. Write a short note on “Cryptography”.

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

1. Explain any five Network Hardware Components.
 2. Explain in detail any five types of Malwares.
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