



BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – B.Tech.(CSE)-2018/B.Tech.(CSE)-2019

Course Name – Modelling Internet Attack

Course Code - PEC801B

(Semester VIII)

Full Marks : 70

Time : 3:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Express about Types of attacks against systems
 - a) Reading data
 - b) Changing data
 - c) Denial of service
 - d) All of the above
- (ii) Estimate about virus code, which consist of
 - a) Replicator
 - b) Concealer
 - c) Payload
 - d) All of the above
- (iii) Express about time based SQL injection attack
 - a) Quick detection
 - b) Initial Exploitation
 - c) Blind SQL Injection
 - d) Inline Comments
- (iv) Express about the motivation of an ethical hacker is
 - a) Financial gain
 - b) Thrill of hacking
 - c) Desire to identify vulnerabilities
 - d) A religious/political/ideological cause
- (v) Express about XSS, where an attackers can perform a variety of malicious activities, such as:
 - a) Hijack an account
 - b) Spread web worms
 - c) Control the browser remotely
 - d) All of the above
- (vi) Predict the role of Key Distribution Center.
 - a) It is used to distribute keys to everyone in world
 - b) It intended to reduce the risks inherent in exchanging risks inherent in exchanging keys
 - c) All of the mentioned
 - d) None of the mentioned
- (vii) Express the following attacks is/are likely to result in identity theft.
 - a) Phishing attack
 - b) Denial of service attack
 - c) Dictionary attack
 - d) Virus infection
- (viii) Define the following statement is false
 - a) PRNGs are slower than TRNGs
 - b) PRNGs are faster than TRNGs

- c) PRNGs are periodic
 (ix) Define the PRNG which stands for
 a) Personal Random Number Generator
 c) Primitive Random Number Generator
 (x) Define a virus that can cause multiple infections is known as what type of virus.
 a) Multipartite
 c) Camouflage
 (xi) Define a for a client-server authentication, the client requests from the KDC a _____ for access to a specific asset.
 a) ticket
 c) token
 (xii) Express the different method of attacking system
 a) Social engineering
 c) Viruses
 (xiii) Identify which of the following is an example of passive online attack.
 a) Phishing
 c) Spamming
 (xiv) Identify which of the following is not possible through hash value.
 a) Digital Signatures
 c) Password Check
 (xv) Express about the purpose of a Denial of Service attack.
 a) Exploit a weakness in the TCP/IP stack
 c) To shutdown services by turning them off
- d) TRNGs are nondeterministic
 b) Pseudo Random Number Generator
 d) Private Random Number Generator
 b) Stealth
 d) Multi-infection
 b) ocal
 d) user
 b) Trojan horses
 d) All of them
 b) Social Engineering
 d) Wire sniffing
 b) Data retrieval in its original form
 d) Data Integrity check
 b) To execute a Trojan on a system
 d) To overload a system so it is no longer operational

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Explain about Linux security overview. (3)
 3. Define about polymorphic virus for infection (3)
 4. Explain about random number generation. (3)
 5. Illustrate about hardware entropy (3)
 6. Describe about UDP hijacking. (3)

OR

Explain about authentication (3)

Group-C

(Long Answer Type Questions)

5 x 8=40

7. Explain the connection teardown of TCP (5)
 8. Illustrate about Mitnick attack. (5)
 9. Explain about IPSec. (5)
 10. Describe about DNS Cache Poisoning (5)
 11. Explain about rainbow table. (5)
 12. Illustrate about payload (5)
 13. Describe about password attack. (5)
 14. Explain the need of key distribution centers. (5)

OR

Explain about message authentication codes. (5)
