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 : 60   **Time : 2:30 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 the codified language can be termed as

a) Clear text   b) Unclear text
c) Cipher text   d) Code text

(ii) Express the following for a message digest algorithm

a) AES   b) DES
c) MD5   d) None

(iii) Express about stage a virus replicate itself

a) Dormant stage   b) Propagation stage
c) Trigger Stage   d) None

(iv) Define the following is not a valid IPV4 address.

a) 192.10.14.3   b) 200.172.287.33
c) 65.92.11.00   d) 10.34.110.77

(v)   _____ allows administrators to define and limit the resources and operations that a user can access.

a) Access   b) Authentication
c) Authorization   d) All of the mentioned

(vi) Define a stream cipher key is usually...........or 128 byte

a) 56   b) 64
c) 48   d) 54

(vii) Tell about Message Authentication Code which is also known as

a) Cryptograpgic codebreak   b) Cryptograpgic codesum
c) Cryptograpgic checksum   d) Cryptograpgic checkbreak

(viii) Define the following will generate random numbers in the range 1-100 (both inclusive)

a) rand() % 100   b) rand() % 101
c) (rand() % (101)) + 1   d) (rand() % (100)) + 1

(ix) Define about a ....is an extension of an enterprise's private intranet across a public Network such as the Internet across a public Network such as the Internet, creating a secure private connection.

   a) VNP   b) VPN
   c) VSN   d) VSPN

(x) Define about the.................. Mode, the authentication header is inserted immediately after the IP header.

   a) Tunnel   b) Transport
   c) Authentication   d) Both A and B

(xi) Express the content of the message is modified

   a) In active attack   b) In passive attack
   c) Both of them   d) None of them

(xii) Express about DoS stands for

   a) Denial of service   b) Demand of service
   c) Demand of server   d) Damage of server

(xiii) Identify how do we ensure data confidentiality

   a) Message digest   b) Hashing
   c) Encryption and decryption   d) None

(xiv) Identify which of the following is not an example of offline password attack.

   a) Dictionary attack   b) Rainbow attacks
   c) Spamming attack   d) Brute force attack

(xv) Expres about hashing which is used in ___ and have variable levels of complexity and difficulty.

   a) Cryptography   b) System approach
   c) Cyber safe   d) None of the mentioned above

Group-B
(Short Answer Type Questions)   3 x 5=15

2. Describe about virus propagation.   (3)
3. Describe about SQL injection.   (3)
4. Describe about Packet Sniffing   (3)
5. Describe about DNS Spoofing   (3)
6. Explain about key distribution.   (3)

OR

   Explain about IP spoofing.   (3)

Group-C
(Long Answer Type Questions)   5 x 6=30

7. Explain the connection set up of TCP.   (5)
8. Explain about ARP poisoning.   (5)
9. Explain about Kerberos   (5)
10. Describe about Ping of Death   (5)
11. Illustrate about Encapsulating Security Header   (5)
12. Describe about Joncheray attack   (5)

OR

   Explain about SYN flood attack in TCP/IP.   (5)

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