



JC-003-004603

Seat No. _____

B. Sc. (I.T.) (Sem. VI) (CBCS) Examination

August – 2019

CS - 32 : Network Management & Information Security

Faculty Code : 003

Subject Code : 004603

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

1 Answer the following questions : 20

- (1) _____ of the transport layer protocol is connectionless.
- (2) An IPv6 address consists of _____ bits.
- (3) What is the size of mac address?
- (4) Ping stands for _____
- (5) Symmetric key cryptography is also known as _____
- (6) What is the full form of mtu?
- (7) List out components of IP security.
- (8) Which software are used for children to restrict internet usage, filtering and controlling?
- (9) In asymmetric key cryptography, _____ keys are required per communicating party.
- (10) Which is error reporting protocol?
- (11) Which algorithm transforms cipher text to plain text?
- (12) What is address range of a class B network address in binary.?
- (13) CIA stands for _____
- (14) MIB stands for _____

- (15) IKE shorts for _____
- (16) PPTP shorts for _____
- (17) What is L2TP?
- (18) _____ uses the global internet for both intra and inter organization communication.
- (19) Which protocol is responsible for converting the logical address to a physical address?
- (20) SNMP uses the concepts of _____ and _____

2 (A) Attempt Any Three out of Six : 6

- (1) Explain: DNS.
- (2) Explain: cryptography.
- (3) Explain: proxy server.
- (4) Explain: firewall.
- (5) Explain: biometric.
- (6) Explain : trojan horses.

(B) Attempt Any Three out of Six : 9

- (1) Write a short note on public key cryptography.
- (2) Write a short note on digital certificate.
- (3) Write a short note on ARP & RARP.
- (4) Explain tunnelling.
- (5) Differentiate between TCP and UDP.
- (6) Explain cross over error rates.

(C) Attempt Any Two out of Five : 10

- (1) Explain OSI model.
- (2) Explain various types of attacks.
- (3) Explain IPv4 and IPv6.
- (4) Explain various biometric techniques.
- (5) Explain network management system in detail.

- 3** (A) Attempt Any **Three** out of Six : **6**
- (1) What is logic bomb?.
 - (2) What is buffer overflow?
 - (3) What is network scanning?
 - (4) Explain cookies.
 - (5) What is TCP sweeps?
 - (6) Define: Kerberos.
- (B) Attempt Any **Three** out of Six : **9**
- (1) Explain authentication header.
 - (2) Explain SNMP protocol.
 - (3) Explain plain text and cipher text.
 - (4) Explain syn flood.
 - (5) Explain trap doors.
 - (6) Explain brute force attack.
- (C) Attempt Any **Two** out of Five : **10**
- (1) Write a note on VPN technology.
 - (2) Write a note on malicious software.
 - (3) Explain various types of virus.
 - (4) Explain web tracking.
 - (5) Explain various attributes of information security.
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