

S. B. Roll. No.....

COMPUTER NETWORKS AND SECURITY
4th Exam/CSE/IT/2495/Nov'24
(For 2018 Batch Onwards)

Duration: 3Hrs.

M.Marks:75

SECTION A

Q1. Do as directed.

15x1=15

- a. What is Network?
- b. OSI consist of ____ layers.
- c. Each IP address includes a Network ID and _____.
- d. WLAN stands for_____.
- e. In IPV6 Addresses are _____ bits in length.
- f. What is HUB?
- g. Name any four topologies.
- h. Why we use repeaters?
- i. HTTPS stands for_____.
- j. P2P stands for_____.
- k. What is computer virus?
- l. NIC stands for_____.
- m. Fault removal includes only software fault removal. (T/F)
- n. LAN connects computers and devices in unlimited geographical area(T/F)
- o. Name any two Bluetooth applications.

SECTION-B

Q2. Attempt any six questions.

6x5=30

- i. Differentiate between LAN, MAN and WAN.
- ii. Explain IP Addressing.
- iii. What is MODEM? Describe its various categories.
- iv. Explain Virus and Trojan.
- v. What is computer network? Discuss its various elements.
- vi. Explain TCP/IP Model.
- vii. Explain steps involved in performing troubleshooting.
- viii. What is firewall?
- ix. Explain the need of subnetting and supernetting.

SECTION-C

Q3. Attempt any three questions.

3x10=30

- a. What is network topology? Discuss various network topologies.
- b. Explain OSI reference model.
- c. Explain various Network Connecting devices.
- d. Explain various Computer network attacks.
- e. Explain cryptography. Also discuss symmetric and asymmetric cryptography

P.S.B.T.E.&I.T.

