

Roll No.

3228

B. Tech. 5th Semester (CSE)

Examination – March, 2021

COMPUTER NETWORKS

Paper : PCC-CSE-303-G

Time : Three Hours]

[Maximum Marks : 75

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all, selecting *one* question from each Section. Question No. 1 is *compulsory*.

1. Write short note on :

2.5 × 6 = 15

- (a) ARP
- (b) Subnetting
- (c) Types of Cipher
- (d) Token Ring
- (e) Framing in data link layer
- (f) BOOTP

SECTION – A

2. (a) What is OSI model ? Explain the working of OSI model in details. 7.5
(b) What do you mean by Sliding Window Protocol ? Explain. 7.5
3. (a) Give a brief description about Computer Network and its historical development. 7.5
(b) Explain Data link layer functions and services in detail. 7.5

SECTION – B

4. Explain the following in detail : 15
(a) DHCP
(b) IPv4
5. (a) What do you mean by MAC ? Explain its functions in details. 7.5
(b) Explain different network devices in details. 7.5

SECTION – C

6. Explain Link State and Distance Vector Routing with the help of example. 15

7. Explain the following in detail : 15

- (a) DNS
(b) SNMP

SECTION – D

8. What do you mean by Cryptography ? Explain its working with proper diagram. 15
9. Explain the following : 15
(a) QoS Improving Techniques
(b) WAN Architecture
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