Roll No.

3228

B. Tech. 5th Semester (CSE) Examination – December, 2022

COMPUTER NETWORKS

Paper: PCC-CSE-303-G

Time : Three hours 1

l 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 any five questions. Question No. 1 is compulsory. Selecting one question from each Section.

1. Define the following:

 $2.5 \times 6 = 15$

- (a) Token Ring
- (b) ARP
- (c) Types of topologies
- (d) Firewall

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(f) Router

SECTION - A

- 5 (a) Explain different types of topologies with their advantages and disadvantages. ∞
- (b) Differentiate connection-oriented services. between connectionless and
- 3. Discuss the OSI model with suitable diagram. 15

SECTION - B

- routers and hub in a network. Explain IPv6 with diagram and discuss the role of 15
- 5. Discuss the Medium Access control layer functions in detail. 15

SECTION - C

- Explain routing and congestion control in detail. 15
- TCP/IP. Explain different Application Layer protocols of 5

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SECTION - D

- 8. Explain the SONET/SDH. Also explain the SONET architecture. 15
- 9 (a) Explain the cryptography technique for network security.
- (b) Discuss the concept of Quality of Service provided for a network.

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