

SUBJECT: DATA COMMUNICATION & NETWORKING

Day: Friday
Date: 12/04/2019

Time: 12.00 NOON TO 02.00 PM
Max. Marks: 40

S-2019-1151

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

Q.1 Answer Any **TWO** of the following: [10]

- a) Describe TCP /IP reference model with diagram.
- b) Compare and contrast - Connection oriented and Connectionless services.
- c) Explain LAN, MAN and WAN in detail.

Q.2 Answer Any **TWO** of the following: [10]

- a) What is Token ring? Describe Token ring management with diagram.
- b) Describe fiber optic cable as an efficient transmission medium.
- c) Explain the working of Network Interface Card (NIC).

Q.3 Answer Any **TWO** of the following: [10]

- a) Discuss static and dynamic routing in detail.
- b) Describe Frequency Division Multiplexing (FDM) and Time Division Multiplexing (TDM).
- c) Explain any two Ethernet standards?

Q.4 Answer Any **FIVE** of the following: [10]

- a) State any two differences between packet switching and circuit switching.
- b) Define computer network. State any two features of computer network.
- c) Give purpose of SMTP and HTTP.
- d) What is bandwidth?
- e) What is communication subnet?
- g) Define - bridge, Hub.

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