Total number of printed pages-3

53 (EC 604) CMNW

2019

COMMUNICATION NETWORK

Paper: EC 604 (Back)

Full Marks: 100

Time: Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions.

- 1. (a) Describe the different open-loop congestion control techniques. 8
 - (b) What are the various responsibilities of data link layer.6
 - (c) Describe the architecture of World Wide Web (WWW).
- 2. (a) What is ATM switching? Describe the functions of different layers of ATM networks.

Contd.

- 6 Describe remote login using TELNET.
- ω (a) Explain the connection Let-up phase of TCP with three-way handshaking.
- *(b)* Draw a neat sketch of IPv4 datagram header format
- 0 Differentiate between:

5+5=10

- (i)TCP and IP
- (a) What is Domain Name System (DNS)?

4.

- *(b)* Describe a general architecture of SMTP? Electronic Mail. What is the role of 7+3=10
- 0 Cite the functionalities of repeaters. 3
- Ģ (a) Find the first address, last address and block size of the following block: 123.56.77.32/29 σ

- *(b)* What is DNS resolution? Recursive Resolution and Iterative Resolution. Describe 2+8=10
- 0 Differentiate between IPv4 and IPv6.4
- σ (a) What are the variants of Ethernet? CI
- (d)Explain HTML, URL and HTTP in context of WWW. 9
- 0 Describe a Token Ring network. 9

Write short notes on:

Linkshop se

 $5 \times 4 = 20$

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Fragmentation Offset

- (ii) Maximum Transfer Unit (MTU)
- (iii) Error-Reporting of ICMP
- (iv) OSI Reference Model.