Total number of printed pages-3

53 (EC 604) CMNW

## 2017

## 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)	Define framing and the reason for its need. 4
	(b)	Define piggybacking and its usefulness. 4
	(c)	Discuss Stop-and-Wait protocol. 12
2.	(a)	Discuss the <i>three</i> different phases of circuit switching. 6

Contd.

t called as a datagram- ork? 5	(b)	
erent types of DNS used . 9	(c)	
e log-in using TELNET. 10	(a)	
ectronic-mail scheme. 10	(b)	
the variants of standard and gigabit ethernet.	(a)	

- 8
- (b) Describe the responsibilities of data link layer. 8
- (c) A packet has arrived in which the offset value is 100, the value of HLEN is 5 and the value of the total length field is 100. What are the numbers of the first byte and the last byte?

4

- 5. (a) What do you mean by flow control and error control? 6
  - (b) Differentiate between a hub and a switch. 5

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3.

4.

(c) What is ATM switching? Discuss different layers of ATM networks.

3+6=9

- 6. (a) Draw a neat diagram of OSI Reference Model. 5
  - (b) Differentiate between TCP and IP.

5

- (c) Explain the IPv4 datagram header format. 10
- 7. (a) Find the first address, last address and the block size of the following block : 200.17.21.128/27 6
  - (b) Describe the architecture of World Wide
    Web (WWW).
  - (c) Explain different open-loop congestion control techniques. 8

3

100