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BE-V/12(A)

232055

COMPUTER ENGINEERING

COURSE NO. COM - 505

(Computer Networks)

Time Allowed: 3 Hours

Maximum Marks: 100

Note: Attempt five questions in all selecting at least two questions from each Section. Each question carries 20 marks.

## Section - A

- What do you mean by Computer Network and Network Topology? Explain each with their advantages and disadvantages.
  - (b) Differentiate various types of Network (LAN, MAN, WAN).

(12, 8)

- 2. Explain the RS - 232 interface standard with necessary (a) diagram.
  - Compare OSI and TCP/IP reference model. Discuss any two (b) layers of OSI model in detail. (8, 12)
- 3. (a) Briefly explain ALOHA and Slotted ALOHA.
  - (b) Discuss error correction and detection strategies.
  - (c) Compare various transmission media. (6, 6, 8)

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4.	(b) E	iscuss the sliding Window Protocol in detail.  Explain the IEEE 802.3 LAN standard in detail. Draw dia wherever necessary.  Section — B	agram 10, 10)
	(b)	Explain at least three routing algorithm employed in to network layer for routing the packets.  Discuss various aspects of Datagram and Virtual circulations.	
6.	Discu (a) (b)	Transport Layer Connection Management	(8, 12)
7.	(a) (b)	What do you understand by congestion control? Disvarious traffic shaping algorithms.  Discuss the need of cryptography. Explain the procedublic key cryptography used in Data Communication.	ess of
8	(a)	ite short note on:  E-mail  Internetworking	(7,6,7)

Firewall.

(c)