Code: CS5T3

III B.Tech - I Semester – Regular/Supplementary Examinations October 2017

COMPUTER NETWORKS (COMPUTER SCIENCE AND ENGINEERING)

Duration: 3 hours Max. Marks: 70

PART - A

Answer *all* the questions. All questions carry equal marks

11x 2 = 22 M

1.

- a) List out the major components of data communication system.
- b) What are the main functions of transport layer?
- c) What is the use of telnet? On which port number it operates?
- d) What is Namespace?
- e) What do you mean by socket address?
- f) Define connectionless service.
- g) Discuss Classful addressing classes.
- h) What do you know about sub netting?
- i) What do you mean by checksum?
- j) Define framing.
- k) What do you understand by guided media? Give examples.

PART - B

Answer any *THREE* questions. All questions carry equal marks. $3 \times 16 = 48 \text{ M}$

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2.a) Explain the network topologies in detail.		8 M
b) What is the difference between circuit switch switching.	iing & pa	cket 8 M
3.a) Illustrate SMTP in detail.		8 M
b) Discuss the difference between IMAP and Powith diagram.	OP3 in de	etail 8 M
4.a) Explain the various services provided by UD	P.	4 M
b) Describe the three way handshaking process	in detail.	8 M
c) Illustrate SYN flood attack in TCP.		4 M
5.a) Describe the IPV4 datagram format with proj	per diagra	am. 8 M
b) Illustrate distance vector routing technique.		8 M
6.a) Discuss HDLC protocol.		8 M
b) Illustrate Slotted aloha in detail.		8 M