Code: EC6T5

III B.Tech - II Semester – Regular Examinations – May 2017

COMPUTER NETWORKS (ELECTRONICS & COMMUNICATION ENGINEERING)

Duration: 3 hours Max. Marks: 70

PART - A

Answer all the questions. All questions carry equal marks

11x 2 = 22 M

1.

- a) What is a peer to peer process?
- b) Write the advantages of optical fiber over twisted-pair and coaxial cables.
- c) Why does ATM uses small and fixed length cells?
- d) Explain in detail the operation of slotted Aloha.
- e) Define piggybacking and write its uses.
- f) Discuss the drawbacks of flooding.
- g) Compare virtual circuit and datagram subnets.
- h) Explain the features of UDP.
- i) Briefly explain the token bucket congestion control algorithm.
- j) What is e-mail?
- k) Write the structure of DNS.

PART - B

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

2.	a)	Explain different types of transmission media in physic layer.	al 8 M
	b)	Explain various network topologies in detail.	8 M
3.	_	For the data 1010110110110001 send using a Generato Polynomial x^4+x^2+1 .	or 8 M
	b)	Explain the parameters to be considered in Flow control?	8 M
4.	a)	Explain Dijkstra's shortest path routing algorithm with example.	8 M
	b)	Differentiate between multicasting and broadcasting.	8 M
5.	a)	Give the Functions of Transport Layer.	8 M
	b)	Explain the TCP connection management.	8 M
6.	a)	What is meant by DNS? Describe the Name server & Resource Records of DNS.	8 M
	b)	State and explain working of the built-in HTTP request methods.	t 8 M