APJ ABDULKALAM TECHNOLOGICAL UNIVERSITY

08 PALAKKAD CLUSTER

Name

Reg. No:

Q. P. Code : CES0819252C-I

(Pages: 2)

SECOND SEMESTER M.TECH. DEGREE EXAMINATION APRIL

Branch: Electronics and Communication Engineering

08EC 6552 (C) / 08EC 6252 (C) COMMUNICATION NETWROKS

(Common to Communication Engineering And Signal Processing & Electronics And Communication Engineering)

Time:3 hours

Max.marks: 60

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20

Answer all six questions.

Modules 1 to 6: Part 'a' of each question is compulsory and answer either part 'b' or part 'c' of each question.

Q.no.	Module 1	Marks
1.a	What is routing? Explain few considerations of an effective router	3
	Answer b or c	
b	List the 7 layers in OSI model and their functions. Why such a hierarchical approach to networking is utilized.	6
c	Write notes on TCP and UDP in transport layer protocol with suitable frame format?	6
Q.no.	Module 2	Marks
2.a	Compare different types of channel multiple access methods	3
	Answer b or c	
b	What does the term error control in the data link layer? Explain different ARQ strategies for a damaged frame	6
с	Explain the following terms (i) Queuing Discipline	6
	(ii) Random Early Detection	1

Q.no.	Module 3	Marks
3.a	What are the issuess in network of Quality of service(QoS) and Explain?	3
	Answer b or c	
b	Explain detail about the various resource reservation protocols (RRP)?	6
c	Write short notes on Multi protocol label switching and Real time transport protocol	6
Q.no.	Module 4	Marks
4.a	Derive the Equation of Littles Theorem.	3
	Answer b or c	
b	Derive P-K formula of M/G/1 system	6
c	Explain in detail about characteristics of infinte capacity, Multiple server poisson queue model-II [(M/M/s):(α / FIFO) model]	6
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Q.no.	Module 5	Marks
5.a	What are the QoS requirements of elastic traffic?	4
	Answer b or c	
b	Discuss the network performance and source characterization in multiplexing networks?	8
c	What are the various components involved in voice transport over a packet network. Describe it with necessary diagrams. Calculate the total delay in network	8
Q.no.	Module 6	Marks
6.a	What are the various performance measures to be considered in a network subsystem?	4
	Answer b or c	
b	Discuss detail about circuit switched PSTN networks with suitable diagrams.	8
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