Eighth Semester B.E. Degree Examination, June/July 2017

Adhoc Networks

Time: 3 hrs.

Max. Marks:100

(06 Marks)

(08 Marks)

Note: Answer FIVE full questions, selecting				
at least TWO questions from each part.				
PART - A				
1	a.	Bring out the differences between cellular networks and adhoc networks.	(08 Marks)	
	b.	Explain adhoc wireless internet with a neat schematic diagram.	(06 Marks)	
	c.	List and explain different applications of adhoc wireless network.	(06 Marks)	
2	a.	Discuss the issues in designing a MAC protocol for adhoc wireless network.	(10 Marks)	
	b.	Explain the five phase reservation protocol in detail.	(10 Marks)	
3	a.	Mention the factors to be considered while making scheduling decisions.	(04 Marks)	
	b.	Explain the distributed laxity based priority scheduling scheme with feedback mechanism.		
			(08 Marks)	
	c.	Give the brief explanation of working of a MAC protocol using directional antenn	as.	
			(08 Marks)	
4	a.	List the characteristics of an ideal routing protocol for an adhoc wireless network.		
	b.	Explain Cluster head gateway switch routing protocol with neat diagram.	(06 Marks)	
	C.	Explain associativity based routing (ABR) protocol with neat diagram.	(06 Marks)	
· _		$\frac{PART - B}{PART - B}$		
5	a.	Explain zone routing protocol with neat diagram. Discuss the advantages and disadvantages.		
	b.	Discuss the power-aware routing metrics for adhoc network.	(10 Marks) (10 Marks)	
	D.	Discuss the power-aware fouting metries for author network.	(10 Marks)	
6		Explain any five major reasons for throughput degradation of TCP when used in adhoc		
U	a.	wireless network.	(10 Marks)	
	b.	With a neat diagram, explain the operations of adhoc-TCP (ATCP) protocol.	(10 Marks)	
	υ.	with a heat diagram, explain the operations of author-Tel (ATCI) protocol.	(10 Marks)	
7	a.	What are the issues and challenges faced in designing a security protocol for adhoc wireless		
,	а.	network?	(06 Marks)	
	b.	Define active and passive attacks.	(04 Marks)	
	c.	Explain two major kinds of cryptographic algorithms.	(10 Marks)	
	С.	Explain two major kinds of cryptographic algorithms.	(10 Marks)	
8	a.	n. Discuss some of the design choices for providing QoS support in adhoc networks. (06 Marks)		
U		b. Describe briefly the ticket based QoS routing protocol used in adhoc wireless network.		
	0.	Describe offerty the tieket based Qos fouting protocol used in author wheless network.		

c. Explain QoS enabled adhoc on-demand distance vector routing protocol.