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Question Paper Code: 52586

B.E/B.Tech. DEGREE EXAMINATION, APRIL 2016

Eighth Semester

Electronics and Communication Engineering

EC 2050 / EC 804 / 10144ECE53 – MOBILE ADHOC NETWORKS

(Regulations 2008/2010)

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions. $PART - A (10 \times 2 = 20 \text{ Marks})$

- 1. Differentiate Adhoc Network and Cellular Network.
- 2. What is scalability?
- 3. Why Contention based Protocol is not suitable for real time traffic?
- 4. Differentiate IEEE 802.11 Std and HIPERLAN.
- 5. What are the advantages and disadvantages of LAR Protocol?
- 6. Why Proactive routing Protocols are not suitable for high mobility networks?
- 7. Why TCP does not perform well in Adhoc networks?
- 8. Define Wormhole Attack.
- 9. What is the need for cross layer design?
- 10. Define Eavesdropping.

$PART - B^{*}(5 \times 16 = 80 \text{ Marks})$

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11.	(a)	(i) Describe the characteristics of the Wireless Channel.	(11)
		(ii) Brief about the applications of Adhoc Network.	(5)
		OR	
	(b)		(16)
	٠		
12.	(a)	(i) Discuss about the issues in designing a MAC layer Protocol for Adhoc Networks.	(8)
		(ii) How the packets are transmitted in MACA Protocol and how the collision	,
		is avoided? Explain.	(8)
	(b) ·	Describe how the table update mechanism is implemented in distributed priority	
-	(-)		(16)
4.1	14		
13.	(a)	(i) How the forwarding zone and Expected zone improves the performance of	
٠		LAR protocol ? Describe it.	(8)
		(ii) Describe the hidden and Exposed Terminal Problem.	(8)
		OR	
×	(b)	List out the classifications of Application independent Multicast protocol and	
,	٠.	explain the MZRP.	(16)
14.	(a)	Describe the operations of Split TCP Protocol and its advantages and	
		disadvantages.	(16)
		OR	
	(b)		(8)
		(ii) Transport layer attacks	(4)
	•	(iii) Application layer attacks	(4)
15.	(a)	Describe how the Adhoc Network is integrated with mobile IP Network.	(16)
		OR ⁵	
	(b)	What are the limitations of 2G and 3G network? How Adhoc network can be	
		integrated with 4G environment? Explain it.	(16)