		Reg. No. :									
	Γ	Question P	aper Code	: 494	02						
B.E./B.Tech. DEGREE EXAMINATION, APRIL 2019											
Elective											
Electronics and Communication Engineering											
		EC902- MOBII		C							
		(Regu	lation 2014)								
Dur	ation: Three hours	-		M	axim	um:	100	Mar	ks		
	PART A - $(10 \text{ x } 1 = 10 \text{ Marks})$										
1.	MANET stands for									CO1-	R
	(a) Multiple ad hoc net		(b) Multiple	access	net						
	(c) Mobile access net		(d) Mobile a	nd hoc 1	net						
2.	The main reason for jamming in wireless network							CO1-	R		
	(a) disruption caused by stronger signal										
	(b) disruption caused by electromagnetic emissions of electronic devices										
	(c) disruption caused by internal sources ,such as cross talk										
	(d) disruption caused by	the message is	reflected by s	olid ob	jects						
3.	In MAC protocol, reservation by nodes.	is	not require	d for	band	lwid	th			CO2-	R
	(a) Central coordination		(b) Bandwid	lth effic	cienc	у					
	(c) Quality of service		(d) synchror	nization	1						
4.	Protocols are d network.	lependent on e	existing link	inform	ation	in	a			CO2 -	·R
	(a) Topology based routing	ng	(b) Greedy p	packet f	forwa	rdir	ng				
	(c) Hierarchical routing		(d) Home zo	one forv	vardi	ng					
5.	The criteria to route pack	ets adopted by	QoS is							CO3-	R
(a) Power-aware metrics (b) Shortest path											
	(c) Minimum bandwidth		(d) none of	of the a	bove						

6.	The main characteristics of an ideal routing protocol for Ad Hoc wireless networks is	CO3 -R					
	(a) it must maximize the use of resources such as bandwidth, memory and computing power						
	(b) it must be loop free and free from stale routes						
	(c) it must not converge to optimal routes once network topology becomes stable.						
	(d) quality of service should be poor as demanded by the application						
7.	One of the design goal of transport layer protocol for Adhoc wireless network is	CO4- R					
	(a) the transport should have mechanisms for congestion contol and flow control						
	(b) the protocol should minimize throughput						
	(c) the protocol should not be able to adapt to the dynamics of the network						
	(d) the protocol should not maintain end to end semantics						
8.	Port address is also known as	CO4- R					
	(a) Service point address (b) Receiver point address						
	(c) Sender point address (d) Both B & C						
9.	Detection of malicious nodes can be detected by using protocol	CO5 -R					
	(a) Secure (b) un secure (c) A & B (d) None	e					
10.	The abbreviation for MIPMANET is?	CO5 -R					
	(a) Movable Internet protocol for Mobile Ad hoc Networks						
	(b) Mobile Internet protocol for Mobile Ad hoc Networks						
	(c) Mobile Intelligent protocol for Mobile Ad hoc Networks						
	(d) Microwave Internet protocol for Mobile Ad hoc Networks						
PART - B (5 x 2 = 10 Marks)							
11.	Define adhoc networks	CO1- R					
12.	Mention the several advantages of MAC protocols that use directional antennas for transmissions.	CO2 -R					
13.	Differentiate proactive and reactive protocol	CO3- R					
14.	What are the fundamental requirements of secure routing for Adhoc wireless networks?	CO4 -R					

15.	Clas	sify the integrating routing solutions based on gateway discovery.	CO5-R				
	PART – C (5 x 16= 80Marks)						
16.	(a)	Illustrate the characteristic features of Mobile ad hoc Networks and state its applications.	CO1 -U	(16)			
	(b)	Or (i) Give the characteristics of wireless channel.	CO1 -U	(8)			
	(b)	(1) Give the characteristics of wheless channel.	01-0	(8)			
		(ii) What are the Characteristics features and applications of Adhoc system	CO1 -U	(8)			
17.	(a)	Explain in detail about contention based protocols with reservation.	CO2 -U	(16)			
		Or					
	(b)	Illustrate and explain the radiation pattern and packet transmission of MAC protocol using directional antennas.	CO2- Ana	(16)			
18.	(a)	Discuss in detail about Unicast routing and Multicast routing Algorithm.	CO3 -U	(16)			
		Or					
	(b)	Illustrate the multilayer clustering defined by the HSR protocol and explain the same.	CO3- Ana	(16)			
19.	(a)	Discuss in detail about Adhoc transport protocols. Or	CO4- U	(16)			
	(b)	Briefly describe the attacks pertaining to the network layer with Neat diagram.	CO4- U	(16)			
20.	(a)	Discuss briefly about parameter optimization technique in detail.	CO5 -U	(16)			
	(b)	Or What is the need to integrate adhoc networks with moble IP? explain.	CO5- U	(16)			