Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2018

Course: Mobile Computing [CSEG 402] Programme: B. Tech CS+Cyberlaw Time: 03 hrs. Instructions:

Max. Marks: 100

Semester: VII

SECTION A

S. No.		Marks	CO
Q 1	In short recall history of mobile communication.		CO1
Q 2	Explain any two routing protocols.		CO1 CO2
Q 3	B Differentiate between IPV4 and IPV6.		
Q4	Explain role of mobile communication in location based services.	5	CO4
	SECTION B		
Q 5	Justify the statement "The way database is accessed in traditional networks is not the same in mobile communication networks".	10	CO5
Q 6	Discuss soft and hard hand over. Also elaborate the step by step procedure of handover.		CO3
Q 7	Citing Route Information Protocol (RIP) and Dynamic Source Routing (DSR) as examples, differentiate between traditional routing protocols and routing in Mobile Ad-Hoc Networks.		
	OR Elaborate the following encapsulation techniques, applicable in mobile computing paradigm. 1. IP-in-IP Encapsulation 2. Minimal Encapsulation 3. Generic Routing Encapsulation	10	CO3, CO5
Q 8	Examine the following figure and detail each respective aspect.	10	CO3

	HA nome network network CN Sender		
	SECTION-C		
Q 9	Defend TCP is unfit for mobile communication networks. Conclude your discussion by elaborating the various TCP improvements.	20	CO5
Q 10	Describe the various routing algorithms in MANET. OR Summarize the following: 1. Power aware and context aware computing. 2. Properties of MANET 3. GSM 4. Tunneling in Mobile IP	20	CO2, CO3

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C	End Semester F Mobile Computing [CSEG 402]:	Examination, December 2018 Semester: V		
	11			
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	;	SECTION A		
S. No.			Marks	СО
Q 1	Explain multiplexing and how it is useful	in communication networks.	5	CO1
Q 2	Highlight the limitations of mobile comp	uting.	5	CO1
Q 3	Discuss slotted aloha.		5	CO1 CO2
Q4	In short explain Wireless Application Pro	otocol (WAP).	5	CO2 CO3
		SECTION B		
Q 5	Explain Mobile IP operation.		10	CO3 CO4
Q 6	Explain hoarding and elaborate pull base	d and push based mechanism.	10	CO3
Q 7	Why in mobile communication context a	wareness and power awareness is required.	10	CO1 CO2
Q 8	Explain encapsulation in Mobile IP. List down the various digital modulation	OR techniques.	10	CO3 CO4
	0	SECTION-C		
Q 9	Elaborate the various improvements in Tenetwork.	CP to support mobile communication	20	CO5
Q 10	Explain the various routing algorithms in	MANET. OR	20	CO2 CO4

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Elaborate the various database issues in context to mobile computing and also discuss the following.		
1. Database architecture (a) Two -Tier and (b) N-Tier Architecture	CO5	
2. Caching Mechanisms		
3. Advantages and Disadvantages of hoarding.		