Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2019

Course: Mobile Computing Semester: 7th

Program: B.Tech Computer Science (Cyber Law/ET-IPR)

Time : 03 hrs.

Course Code: CSEG 402 Max. Marks: 100

Instructions: All questions of section A are compulsory. Question number 9 (Section B) and 11 (Section C)

have internal choice.

	SECTION A		
S. No.		Marks	CO
Q 1.	What is handover? Discuss the difference between soft hand over and hard hand over.	1+3	CO1
Q 2.	Differentiate between a piconet and a scatternet.	4	CO1
Q 3.	What are push based systems? Give appropriate example.	3+1	CO3
Q 4.	What is proactive routing in MANET? Give example of one such protocol.	3+1	CO1
Q 5.	Discuss cache invalidation in brief.	4	CO5
	SECTION B		•
Q 6.	(a) With the help of necessary signal diagrams, explain the working principle of CDMA between two stations. You may assume key values for both the stations.(b) Explain the phenomenon of multipath propagation in wireless communication.	6+4	CO2 CO1
Q 7.	Discuss the characteristics of mobile computing. Show, how some of those characteristic are actually limitations.	6+4	CO6
Q 8.	List down the possible application areas of mobile computing.	4+6	CO6
Q 9.	Describe in detail the reasons why traditional MAC layer is not suitable for wireless medium. Write a short note on IPV6. OR	6+4	CO4 CO6
	Discuss different data hording techniques followed in mobile computing. What is multipath fading?	8+2	CO5

SECTION-C				
Q. 10	(a)Discuss how selective retransmission can improve performance of traditional TCP.	5+(10+5)	CO4	
	(b) Discuss the different improvisations made on traditional TCP to make it work for wireless medium. Make a vis-à-vis comparison of those improvisations			
Q. 11	Differentiate between a proactive and a reactive mobile routing protocol. Discuss one reactive and one proactive protocol of your choice along with their relative merits and demerits.	5+15	CO4	
	OR			
	Discuss the concept of mobile IP in brief. What is tunneling? Describe the discovery, renewal and release processes in DHCP	3+2+15	CO2, CO4	