Reg No.:	Name:
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## APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

SEVENTH SEMESTER B.TECH DEGREE EXAMINATION(R&S), DECEMBER 2019

	Course Code: IT403						
		Course Name: Mobile Computing					
M	ax. N	Marks: 100 Duration: 3	Hours				
		PART A  Answer any two full questions, each carries 15 marks.	Marks				
1	a)	Differentiate between W-CDMA and CDMA 2000	(4)				
	b)	Write a short note on IMT 2000	(3)				
	c)	Explain how security is provided by GSM?	(8)				
2	a)	Compare the generations of Cellular wireless networks	(8)				
	b)	Explain different types of handovers in GSM?	(7)				
3	a)	Write short note on GPS	(5)				
	b)	What is meant by cell splitting?	(2)				
	c)	Explain the purpose of MSISDN, IMSI, TMSI and MSRN.	(8)				
		PART B  Answer any two full questions, each carries 15 marks.					
4	a)	What is DHCP? Explain its operations with neat diagram.	(8)				
	b)	Explain slow start mechanism in conventional TCP. What is the impact of higher	(7)				
		rate and missing acknowledgements in wireless networks on slow start.					
5	a)	What is the purpose of Registration in mobile IP? What are the methods used to achieve this?	(8)				
	b)	Explain the handover process in Indirect TCP. What happens when the mobile is	(7)				
		disconnected?					
6	a)	With a neat diagram explain Minimal encapsulation.	(6)				
	b)	Discuss about the various mechanisms of Traditional TCP that influence its	(9)				
		efficiency in mobile environment?					
		PART C  Answer any two full questions, each carries 20 marks.					
7	a)	Explain Dynamic Source Routing algorithm for ad hoc networks.	(12)				
	b)	Explain the wireless control message protocol	(3)				
	c)	List the applications of M-commerce	(5)				

8	a)	Describe the major security goals of MANET	(2	2)
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- b) Compare Proactive and Reactive routing protocols .Write one example for each (8) type. Discuss the advantages and disadvantages of both.
- c) What is wireless transaction protocol and explain different classes of transaction (10) services.
- 9 a) Describe how Least Interference Routing calculates the cost in terms of (10) interference and finally identifies best path with a proper example.
  - b) With a neat diagram explain Wireless Application Environment. (10)

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