Reg No.:	Name:
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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

SEVENTH SEMESTER B.TECH DEGREE EXAMINATION(S), MAY 2019

Course Code: IT403

		Course Code: IT403	
		Course Name: Mobile Computing	
M	ax. I	Marks: 100 Duration: 3	Hours
		PART A	Marks
1	\	Answer any two full questions, each carries 15 marks.	
1	a)	Explain how IEEE 802.11 provides MAC in infrastructure networks	(9)
	b)	Explain GPRS architecture with the help of a neat diagram.	(6)
2	a)	Write a short note on cellular wireless networks.	(6)
	b)	Explain the purpose of Equipment Identity Register in GSM.	(3)
	c)	Differentiate between BTS, BSC and MSC.	(6)
3	a)	What is QOS? List some of the QOS in 3G	(3)
	b)	List the goals of Wireless LAN.	(3)
	c)	Differentiate between mobile originated call and mobile terminated call in GSM?	(6)
	d)	What is the role of GPRS support nodes?	(3)
		PART B	
		Answer any two full questions, each carries 15 marks.	
4	a)	What is the purpose of agent discovery in mobile IP? Describe the process.	(10)
	b)	Explain the pros and cons of snooping TCP?	(5)
5	a)	Explain the steps involved in the IP packet delivery.	(5)
	b)	List out different enhancements to TCP for mobility support. Explain any three of	(10)
		them.	
6	a)	Explain about different types of encapsulation.	(9)
	b)	Why do we go for I-TCP? What are the advantages and disadvantages of it.	(6)
		PART C	
		Answer any two full questions, each carries 20 marks.	
7	a)	Explain about (i) Flat ad-hoc routing (ii) Hierarchical ad-hoc routing	(10)
	b)	Explain the wireless transport layer security	(10)
8	a)	Describe the situations in which mobile ad hoc networks are used instead of	(6)
		infrastructure mode	

b)	What are the difficulties in designing a routing algorithm for ad hoc wireless	(6)
	algorithm in comparison with wired network routing algorithm?	
c)	List any four Mobile App Development Tools and explain it.	(8)
a)	Explain about security challenges in mobile Ad Hoc networks.	(8)
b)	Explain any three protocols in WAP protocol suite.	(12)

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