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Fourth Semester MCA Degree Examination, Dec.2017/Jan,2018 Mobile Computing and Wireless Communication

Tin	ne: í		Marks:100
		Note: Answer any FIVE full questions.	
1	a. b.	Explain the three-tier architecture for mobile computing with a near diagram. What is context aware system? What all can be types of information needed for one of the context aware system?	
		fully context aware system?	(10 Marks
2	a.	Describe different elements in the GSM architecture, with a neat diagram.	(10 Marks
	b.	What are the various strengths of SMS? Discuss the difference between SMMT	
			(10 Marks
3	a.	Explain GPRS attach procedure with PDP context.	(06 Marks
	b.	Describe GPRS specific applications and list the limitations of GPRS.	(10 Mark
	c.	Explain the functions of SGSN and GGSN in GPRS.	(04 Mark
4	a.	Describe CDMA data protocol stack.	(10 Mark
	b.	Explain different handoff techniques in CDMA.	(06 Mark
	c.	List out any four differences between GSM and CDMA.	(04 Mark
5	a.	Explain the design constraints for handheld devices.	(10 Mark
	b.	What is mobile IP? Explain three basic capabilities of mobile IP.	(10 Mark
6	a.	Describe smart client architecture with a suitable diagram and list different kind	ds of mobi
		operating system	(10 Mark
	b.	Discuss the smart client development cycle with a neat diagram.	(10 Mark
7	a.	Explain the processing of wireless internet request.	(08 Mark
	b.	What are the key benefits of WAP?	(07 Mark
	c.	Write a short note on HTML.	05 Mark

a. Explain MIDlet Lifecycle. How is provisioning done in MIDP application?b. Explain security considerations in MIDP.

(12 Marks)

(08 Marks)

Important Note: 1. Or 2. An