

## Fourth Semester MCA Degree Examination, Dec.2019/Jan.2020 Mobile Computing and Wireless Communication

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

1	a.	What is Mobile Computing? Explain the three-tier architecture for mobile comp	
		neat diagram.	(10 Marks)
	b.	What do you understand by context? Explain context aware system in detail.	(10 Marks)
2	a.	Describe the GSM architecture with its constituent elements.	(10 Marks)
	b.	What are the various strengths of SMS? Explain SMMT and SMMO with an exam	ıple.
			(10 Marks)
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3	a.	Explain the GPRS system architecture, with neat diagram.	(10 Marks)
	b.	Explain the different applications of GPRS and list the limitations of GPRS.	(10 Marks)
4	a.	Explain the major difference between GSM and IS-95.	(10 Marks)
	b.	What are the different spreading techniques?	(04 Marks)
	c.	Explain different handoff-techniques in mobile communication.	(06 Marks)
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5	a.	Explain the design constraints in application for handheld devices.	(10 Marks)
	b.	What is Mobile IP? Explain tunneling in the context of Mobile IP.	(13 Marks)
6	a.	What is Smart Client architecture for user interface and data storage"? Explain it.	(10 Marks)
	b.	Explain the various mobile operating systems.	(10 Marks)
7	a.	Explain the various steps involved in processing a wireless request.	(10 Marks)
	b.	Explain the following:	V
	0.	i) WML ii) XHTML iii) HDML iv) HTML.	(10 Marks)
8		Write short notes on the following:	
O	a.	CDC	
	b.	CLDC	
		MIDP	
	c.		(20 Marks)
	d.	Security considerations in MIDP.	(20 Mains)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.