(10 Marks)

(10 Marks)

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.

USN

Ome: 3 hrs.

Fifth Semester MCA Degree Examination, Dec. 2013/Jan. 2014

Wireless Networks and Mobile Computing Max. Marks:100

Note: Answer any FIVE full questions.

1	a.	Explain the three – tier architecture for mobile computing, with a neat diagram.	
	b. c.	With a neat diagram, describe the ICAP. Discuss the context aware system with respect to mobile computing.	(10 Marks) (05 Marks) (05 Marks)
2	a. b.	Describe the speech processing in GSM with a neat diagram. Explain GSM addresses and identifiers.	(10 Marks) (10 Marks)
3	a. b. c.	What are the strength of SMS? Give reasons. Explain the limitations of GPRS. List GPRS specific applications. Describe any four of them.	(06 Marks) (04 Marks) (10 Marks)
4	a. b. c.	Explain IS – 95 forward and reverse link channel structures, with a neat diagram. What are the different spreading techniques? Explain the following: i) Soft handoff ii) Hard handoff iii) Softer handoff.	(10 Marks) (04 Marks) (06 Marks)
5	а	Discuss the tunneling operations in mobile IP	(05 Marks)

- Discuss the tunneling operations in mobile IP. (05 Marks) Explain the components of PDA with neat diagram. (05 Marks)
 - Explain the design constrains in applications for handheld devices. (10 Marks)
- Describe the smart client architecture, with a neat diagram.

Explain the various mobile operating systems.

1073 O. (II) Explain the steps for processing a wireless request. (10 Marks)

- Explain briefly the following markup languages in wireless computing:
 - **HDML** i)
 - ii) WML
 - iii) HTML
 - iv) Voice XML

v) cHTML. (10 Marks)

Security the security considerations in MIDP. (08 Marks)

Explain the lifecycle of MIDlet. (12 Marks)