

USN

--	--	--	--	--	--	--	--	--	--

Fifth Semester MCA Degree Examination, Dec.2015/Jan.2016
Wireless Networks and Mobile Computing

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. With a neat diagram of three-tier architecture for mobile computing, explain presentation tier and data tier. (12 Marks)
- b. Explain the following:

i) Policy Manager	ii) Semantic web	
iii) Security Manager	iv) Adaptability Manager	(08 Marks)
- 2 a. Write the neat diagram of GSM architecture and explain different entities in brief. (12 Marks)
- b. Explain the sequence of operation from speech to Radio wave in GSM network. (08 Marks)
- 3 a. Explain SMMT and SMMO. (08 Marks)
- b. With a neat diagram explain the functions of different parts of GPRS system architecture. (12 Marks)
- 4 a. List out the challenges of billing and tariffing in GPRS. (06 Marks)
- b. Explain the working of Direct sequence spread spectrum. (10 Marks)
- c. Explain BPSK and QPSK. (04 Marks)
- 5 a. Explain the following:

i) Soft Handoff	ii) Hard Handoff	iii) Softer Handoff	
			(09 Marks)
- b. List out the differences between the functions of GSM and CDMA. (06 Marks)
- c. Discuss the features of CDMA 2000. (05 Marks)
- 6 a. List and explain 3G specific applications. (10 Marks)
- b. Discuss about mobile phones and their features. (10 Marks)
- 7 a. Explain user interface, data storage and performance of a smart client. (10 Marks)
- b. Discuss the challenges faced during the deployment phase in smart client. (10 Marks)
- 8 Write short notes on :

a. PDA	
b. Win CE	
c. Palm OS	
d. Benefits of Java.	(20 Marks)

* * * * *