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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)

Third Semester, M. Tech. - Computer Science and Engineering (MCSE)

Semester End Examination; Dec - 2016/Jan - 2017

Wireless and Mobile Communication

Time: 3 hrs *Max. Marks: 100*

***Note**: Answer **FIVE** full questions, selecting **ONE** full question from each **unit**.*

UNIT - I

1	a.	Explain the 3-tier architecture for mobile computing with necessary diagrams.	10
	b.	Briefly discuss the strength of SMS.	10
2	a.	With a neat diagram explain the GPRS system architecture.	10
	b.	Briefly discuss the applications of GPRS.	10

UNIT - II

3	a.	Write the basic differences between mobile IPv4 and mobile IPv6.	10
	b.	Discuss the tunneling with respect to mobile IP with appropriate diagrams.	10
4	a.	Explain the mobile IP architecture.	10
	b.	Describe the design constraints in applications for handled devices.	10

UNIT - III

5	a.	Describe smart client architecture with diagram.	10
	b.	With a neat diagram, explain the palm OS architecture.	10
6	a.	Explain the concept of data synchronization and its architecture.	10
	b.	Discuss the need of analysis and design phases.	10

UNIT - IV

7	a.	Illustrate the processing a wireless request.	10
	b.	Explain the WAP programming model.	10
8	a.	Explain the 3-tier architecture for wireless internet architecture.	10
	b.	Discuss on the following : i) WML ii) X HTML.	10

UNIT - V

9	a.	What is CLDC? How do you program for CLDC? Explain in detail.	10
	b.	Explain briefly the low level GUI components.	10
10	a.	What is J2ME MIDP? Explain its various functional components in detail.	10
	b.	List and explain the different security considerations in J2ME. Also explain the mechanisms through which they are handled.	10

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