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7	P.E.S. College of Engineering, Mandya - 571 401 (An Autonomous Institution affiliated to VTU, Belgaum) First Semester, M. Tech - Computer Engineering Semester End Examination; Jan/Feb - 2016 Mobile Computing	
	Time: 3 hrs Max. Marks: 100 <i>Note:</i> Answer FIVE full questions, selecting ONE full question from each unit .	
1 a.	UNIT - I	10
b.	Define Internet content adaptation protocol (ICAP). Mention the major components and describe the data flow in ICAP environment with a diagram.	10
2 a.	Describe the steps that occur when IP data grams are exchanged over a TCP connection between mobile node and a host with a figure.	10
b.	Explain the different characteristics that define the computing environment as mobile.	10
	UNIT - II	
3 a.	Where the permanent data of service profile is stored for the subscribers registered with a cellular network operator? Mention the information related to this permanent data.	10
b.	Define different technologies used between the human analog interface in mobile and digital	10
4 a.	network in GSM with the help of a diagram. What are the unique characteristics of SMS that makes it an attractive bearer for mobile	
4 a.	computing? Explain.	10
b.	Discuss how the attachment and detachment procedure is done in GPRS Network?	10
	UNIT - III	
5 a.	Explain the different features of wireless markup languages.	10
b.	Mention and describe the main elements of IS-95 reference model.	10
6 a.	What is digital rights management? Discuss the open mobile alliance (OMA) proposal on digital rights managements.	10
b.	List and explain the layers of CDMA protocol stack for data and facsimile.	10
	UNIT – III	
7 a.	Describe the various advantages of wireless LAN.	10
b.	Explain the design constraints faced by application developers for the hand held devices.	10
8 a.	Identify and describe the fields in Frequency Hopping Spread Spectrum (FSSS) and direct sequence spread spectrum (DSSS) of physical layer convergence procedure (PLCP).	10
b.	Discuss the issues that need to be addressed during the network design of wireless LAN.	10

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UNIT - V

9	a.	Identify and explain the kernel features and memory architecture of palm OS.	10
	b.	Describe the different features offered by symbian 8.1.	10
10	a.	Define connection manager. What are the different purposes the connection manager is used	10
		for in palm OS? Explain.	10
	b.	Mention and explain the components needed for the applications of symbian O.S.	10

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