BICSE-014

B.TECH. COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

June, 2013

BICSE-014 : MOBILE COMPUTING

Time : 3 hours		Maximum Marks : 70
Note :	(i) (ii)	Answer any seven questions. All questions carry equal marks.
	(11)	

1.	(a)	What are the different types of common		
		channels of GSM ? Explain how they are		
		used.		

- (b) Draw and explain the forward channel 5 structure of CDMA.
- (a) With a neat diagram explain the WAP 5 architecture.
 - (b) Discuss briefly the user scenarios of 5 Bluetooth.
- Discuss in detail about the data management 10 issues involved in mobile environment.
- 4. (a) What is the protocol that is used for 5 advertisement of agent? How that protocol is used ?

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- (b) Among agent advertisement and agent 5 solicitation, which one is preferred and why ?
- 5. (a) Explain about the quality of service in 5 ad hoc networks in detail.
 - (b) What are the differences between AODV 5 and the standard distance vector algorithm ? Why are extensions needed ?
- 6. (a) Compare IEEE 802.11, HiperLAN2 and 5
 bluetooth with regard to their ad hoc capabilities. Where is the focus of these technologies ?
 - (b) Why has a scripting language been added 5 to WML ? How can this language help saving bandwidth ?
- What is adaptive clustering ? Explain the 10 adaptive clustering for mobile wireless networks in detail.
- 8. Explain about the following :
 - (a) MAC issues 5
 (b) Temporary Ordered Routing Algorithm 5
 (TORA)

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- 9. Explain the role of Home Location Register (HLR) 10 and Visitor Location Register (VLR) in call processing in detail.
- **10.** (a) Discuss the various transactions in detail. **5**
 - (b) What are the problems involved in client 5 mobility ?