CE1.5-R4:MOBILE COMPUTING

NOTE:

- 1. Answer question 1 and any FOUR from questions 2 to 7.
- 2. Parts of the same question should be answered together and in the same sequence.

Time: 3 Hours Total Marks: 100

- 1. (a) Discuss various types of mobile networks.
 - (b) Why traditional IP cannot be used for mobile systems?
 - (c) How data cache consistency is maintained in mobile environment?
 - (d) What is a transcoding Gateway?
 - (e) What are the features of Wireless Markup Language (WML)?
 - (f) What are the specific applications of GPRS?
 - (g) What are the different types of Wireless LANS?

(7x4)

- 2. (a) Discuss the process of call handover when a mobile station moves.
 - (b) Explain the protocol stack of a CDMA system.

(9+9)

- 3. (a) What is tunneling in mobile IP?Explain the packet header using generic routing encapsulation for tunneling.
 - (b) What is I-TCP? Discuss its advantages and disadvantages.

(10+8)

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(c)	Symbian OS architecture
(b)	DSR protocol
(a)	Zigbee
7. Wr	ite short notes on:
(b)	(9+9)
(b)	What is symmetric key cryptography? Explain DES algorithm.
6. (a)	Why data needs to be synchronized in a mobile system? What are the various types of data synchronization?
	(10+8)
(b)	Explain push based data dissemination models. What are the advantages and disadvantages of these?
5. (a)	How does CSMA/CA takes care of avoiding the collision in a Mobile Channel Access Process?
()	(6+6+6)
(c)	TCP-Reno
(b)	Hiper LAN
(a)	Voice over IP

Describe the following:

4.