CE1.5-R4: MOBILE COMPUTING

ΓE:	
 Answer question 1 and any FOUR from questions 2 to 7. Parts of the same question should be answered together and in the same sequence. 	
e: 3 Hours Total Marks:	100
Why are the operating system and middleware needed for a mobile system? Describe the localization process of GSM. What are the advantages and disadvantages of snooping TCP? What is MESI protocol? Explain. What is a Protocol Conversion Gateway? What are the features of a WML script? List the advantages of Wireless LANs.	(7x4)
Describe the functions, services and architecture of a GPRS system. Explain the basic access mechanism used by the MAC layer in wireless LANs. (1	0+8)
How does a mobile node finds and connects to a new foreign agent once it has moved? How does mobile IP works? (1	0+8)
Explain Session Initiation Protocol (SIP). Compare CDMA and GSM. Describe Short Messaging Service (SMS). (8+	5+5)
What are the various components of Information Security? Describe the various categorie attacks that an information system can suffer.	, es of +10)
Describe various types of security models. Explain in detail the Palm OS architecture. (8	+10)
Describe the following: Pull based data dissemination Conflict resolution strategies in mobile system Hashing algorithms	(3x6)
	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. e: 3 Hours Total Marks: Why are the operating system and middleware needed for a mobile system? Describe the localization process of GSM. What are the advantages and disadvantages of snooping TCP? What is MESI protocol? Explain. What is ne Protocol Conversion Gateway? What are the features of a WML script? List the advantages of Wireless LANs. Describe the functions, services and architecture of a GPRS system. Explain the basic access mechanism used by the MAC layer in wireless LANs. (1 How does a mobile node finds and connects to a new foreign agent once it has moved? How does mobile IP works? (1 Explain Session Initiation Protocol (SIP). Compare CDMA and GSM. Describe Short Messaging Service (SMS). (8+ How does mobile TCP works? What are the advantages and disadvantages of mobile TCP? What are the various components of Information Security? Describe the various categorid attacks that an information system can suffer. (8 Describe various types of security models. Explain in detail the Palm OS architecture. (8 Describe the following: Pull based data dissemination Conflict resolution strategies in mobile system Hashing algorithms