Roll No	

Total Pages: 02

BT-6/J-22

46172

MOBILE COMPUTING PE-IT-S312A/PE-CS-S312A

Time: Three Hours]

[Maximum Marks: 75

Note: Attempt Five questions in all, selecting at least one question from each Unit.

Unit I

- 1. (a) Explain evolution of mobile systems and design considerations for mobile computing.
 - (b) What is hand-off? Explain various types and issues therein.
- 2. (a) Explain the concept of HLR and VLR. 6
 - (b) Explain the four sub-systems of GPRS system architecture. What are protocol layers between BSS and SGSN in GPRS?

Unit II

3. (a) Explain the working IEEE802.11 MAC.

7

(b) What are different entities in mobile IP? Show various types of encapsulation done here.

(a)	What is WAP? Describe WAP protocol stack and	I		
	its architecture.			
(b)	Why cannot we use TCP directly over wireless.			
	Suggest some improvements.			
Unit III				
(a)	Explain the need of data replication for mobile			
	computers. 7			
(b)	Discuss resource management, scheduling and load			
	balancing in cloud.			
(a)	What are issues in mobile transaction processing? 7			
(b)				
	processing.			
	Unit IV			
(a)	What are the concepts in reactive and proactive			
	routing protocole in MANET o			
(b)				
(a)				
	immensely popular 2 Di-			
(b)	What are challenges in MANET routing protocols ?			
	(b) (a) (b) (a) (b) (a)	its architecture. (b) Why cannot we use TCP directly over wireless. Suggest some improvements. 7 **Unit III** (a) Explain the need of data replication for mobile computers. 7 (b) Discuss resource management, scheduling and load balancing in cloud. 8 (a) What are issues in mobile transaction processing? 7 (b) Explain the need of map reduce for simplified data processing. 8 **Unit IV** (a) What are the concepts in reactive and proactive routing protocols in MANET? 9 (b) Explain the working of DSR. 6 (a) What is the reason of AODV protocol being immensely popular? Discuss. 9		