Master of Computer Application (MCA-III) (CBCS Pattern) Fifth Semester **PSMCAT505.2 - Elective-II - Mobile Computing Paper-V**

	ages : e : Thi	e Hours $* 3 2 2 9 *$	GUG/W/18/11124 Max. Marks : 80	
	Note	 1. All the questions are compulsory and carry equal marks. 2. Draw neat and labelled diagram wherever necessary. 3. Avoid vague answers and write the answers relevant and specification. 	fic to questions only.	
1.		Either:		
	a)	What is mobile computing? Write its applications and characteristics.	8	
	b)	Explain in detail various issues of wireless MAC.	8	
		OR		
	c)	Write a note on: i) Random Assignment Scheme ii) Reservation Based Schemes.	8	
	d)	Explain in detail structure of Mobile Computing Application.	8	
2.		Either:		
	a)	What Mobile IP? Explain. Write the features of Mobile IP.	8	
	b)	Explain in detail Architecture of TCP/IP.	8	
		OR		
	c)	Discuss in detail, how to improve performance of TCP.	8	
	d)	Explain detail the key mechanism in Mobile IP.	8	
3.		Either:		
	a)	Define GSM. Explain various categories of services.	8	
	b)	Explain in detail Architecture of UMTS.	8	
		OR		
	c)	What is GPRS? Write the Goals and features of GPRS.	8	
	d)	Explain in detail purpose of EIR.	8	

4.		Eith	ner:	
	a)	Discuss various Popular Routing Protocols in detail.		
	b)	Wh	at is VANET? Explain its characteristics.	8
	OR			
	c)	Exp	plain in detail the difference between cellular and Ad hoc Network.	8
	d)	Define Ad-Hoc. Explain its design issues in detail.		
5.	Attempt all the questions.			
		a)	Differentiate between Mobile Computing and Wireless Networking.	4
		b)	Write a short note on Route Optimization.	4
		c)	Write the functions of HLR.	4
		d)	Differentiate between MANET and VANET.	4
