## GBGS SCHEME

USN		16/17	MCA451
Fourth Semester MCA Degree Examination, June/July 2019			
Wireless Communication and Mobile Technologies			
Tin	ne: 3	3 hrs. Max. N	Aarks: 80
Note: Answer any FIVE full questions, choosing one full question from each module.			
		Module-1	
1	a.	Explain the functionalities and features of a latest PalmOS device.	(08 Marks)
	b.	List and explain the limitations of mobile devices.	(08 Marks)
2	a. b.	Explain the functionalities of a Smartcard.  Explain the different types of handovers in GSM when a mobile station moves fi	(08 Marks)
	υ.	to another.	(08 Marks)
			(oo marks)
3	a.	Explain the GSM services.  Module-2	(08 Marks)
		Discuss the various types of calls and their respective procedures handled	by a GSM
		network.	(08 Marks)
4	a.	Explain the different types of digital modulation techniques.	(08 Marks)
	b.	Explain Medium Access Control for Exposed and Hidden Terminals.	(08 Marks)
Module-3			
5	a.	Explain the working of mobile Ip.	(08 Marks)
	b.	Explain the mechanism to deliver the Ip packets over Internet.	(08 Marks)
6	a.	What is encapsulation? Explain the encapsulation techniques with its frame form	
	b.	Explain the working principles of Indirect TCP.	(08 Marks)
	0.		(08 Marks)
7	0	With a past diagram avalais Four Tion architecture How do multimedia datal	
,	a.	With a neat diagram explain Four-Tier architecture. How do multimedia datab mobile device in client-server architecture?	(08 Marks)
	b.	Explain the query-processing architecture for processing a query using distribute	
			(08 Marks)
8	a.	Explain pull-based data-delivery mechanism.	(08 Marks)
	b.	Explain the types of Broadcast disk models.	(08 Marks)
0		Module-5	
9	a. b.	List and explain the characteristics features of DAB system.  What is data synchronization? Explain different types of synchronization.	(08 Marks) (08 Marks)
	٥.		(00 Maiks)
10	a.	With a neat diagram, explain the BSS and IBSS service sets in WLAN architecture	ıra
10	a.		(08 Marks)
	b.	Explain the basic features of Zig Bee.	(08 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice.

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