GANPAT UNIVERSITY

B. TECH. SEMESTER: VII (COMPUTER ENGINEERING / INFORMATION TECHNOLOGY) REGULAR EXAMINATION NOV – DEC 2015

2CE704 / 2IT704 : MOBILE COMPUTING

Time: 3 Hou	rs]	[10tal Marks:	70
Instruction:	2: Each : 3: Assur	es to right side indicate full marks. section should be written in a separate answer book. ne suitable data if required. ecise and to the point in your answer.	
		Section - I	
Que	1 [A]	Explain route discovery and route maintenance process of DSDV.	[6]
	[B]	Explain following MOBILE TRANSACTION MODELS:	[6]
		a. Kangaroo Transaction Model	
		b. Clustering Transaction Model	
		OR	
Que	-1 [A]	Explain following Electronic payment systems:	[6]
		a. Digital Wallet (Electronic wallet)	
		b. Electronic Cheque	
		c. Electronic cash	
	[B]	Describe the properties of MANET.	[6]
Que	-2 [A]	Explain IERP, IARP and BRP of Zone Routing Protocols in MANET.	[5]
	[B]	Describe push-based data-delivery mechanism. What are the advantages	[6]
		and disadvantages of push-based data dissemination?	
		OR	
Que	-2 [A]	Which routing protocol supports multicasting? How that protocol	[5]
		creates multicast tree?	
	[B]	Show architecture for data dissemination and broadcast. Explain the	[6]
		reasons for communication asymmetry in mobile network. Give	
		examples of asymmetric communication architecture for data	
		dissemination.	

Que. – 3	[A]	Explain various recovery models for mobile transactions.	[4]
	[B]	What are the advantages and disadvantages of DSR Routing Protocols	[4]
	[10]	in MANET?	
	[C]	What is mobile computing? What are the major goals of mobile computing?	[4]
		Section – II	
Que. – 4	[A]	Explain the three tier architecture of mobile computing with their functions.	[7]
Wash	[B]	Explain the handover procedure in GSM system.	[5]
		OR	
Que. – 4	[A]	Explain GSM network architecture.	[7]
	[B]	List and explain limitations of mobile computing.	[5]
Que 5	[A]	List the basic features of CDMA systems. Explain soft handover.	[6]
	[B]	Explain the function of SGSN and GGSN.	[5]
		OR	
Que 5	[A	Explain the Direct Sequence Spread Spectrum Techniques.	[6]
TRIADAS	[B	protocol? How does the agent discover COA(s) when a mobile station	[5]
		node visits a foreign network?	[6]
Que 6	[A	Explain following.	(-)
		1. RFID	
		2. Application of GPRS	
		3. Uplink and Downlink	
	D	How does a cellular network function? Explain cellular network architecture and use of frequency reuse.	[6]

END OF PAPER