AQ-2904

Faculty of Engineering & Technology

M.E. Computer Science & Infor. Tech. Semester—II (New-C.G.S.) Examination MOBILE COMPUTING

(Elective—II)

Paper—2 RNME 5

Time: Three Hours] [Maximum Marks: 80 INSTRUCTIONS TO CANDIDATES (1) All questions carry marks as indicated. (2) Due credit will be given to neatness and adequate dimensions. (3) Assume suitable data wherever necessary. (4) Illustrate your answers wherever necessary with the help of neat sketches. (5) Use pen of Blue/Black ink/refill only for writing the answer book. (a) Explain in detail the slow fading and fast fading effect in wireless channel. 1. 7 (b) What is Protocol? Explain network protocols in detail. 7 OR 2. (a) What are the applications of a satellite system? 2 (b) Explain the characteristics of cellular system. 7 (c) Describe in detail the Radio Propagation. 5 3. (a) Give the comparison between Fixed channel allocation and Dynamic channel allocation. 7 (b) Describe following terms: (i) Delay Spread (ii) Coherence Bandwidth. 6 OR

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(Contd.)

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4.	(a)	What is meant by cluster?	2
	(b)	Write short note on frequency reuse and hexagonal cell pattern.	6
	(c)	Define cell. What is cell splitting?	5
5.	(a)	Explain multicasting in mobile communication system.	7
	(b)	Write short notes on GSM and IMT-2000.	6
		OR	
6.	(a)	Explain AMPS operation in detail.	7
	(b)	What are hand-off parameters and its underlying support? Explain.	6
7.	(a)	What do you mean by routing in mobile-adhoc network? Explain dynamic so routing with neat diagram.	ource 7
	(b)	Explain the characteristics of MANET.	7
		OR	
8.	(a)	Write short note on, on-demand routing.	7
	(b)	Discuss any two route optimization strategies.	7
9.	(a)	Explash the design of MAC management in IEEE 802.11 protocol.	7
	(b)	Explain ultra-wide band technology with its two methods to generate wide spec	tra.
			6
		OR	
10.	(a)	What is meant by topology? Explain wireless personal area networks in detail.	7
	(b)	Differentiate Wireless Metropolitan Area Network with Wireless Local Area Network	vork.
			6
11.	(a)	Discuss the characteristics and limitations of bluetooth.	6
	(b)	What are the security threats to wireless network?	7
		OR	
12.	(a)	What do you mean by XML? Explain use of XML in designing.	7
	(b)	Draw the bluetooth protocol stack and explain the core protocol.	6
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