Code No: **R164105C**

R16

Set No. 1

IV B.Tech I Semester Advanced Supplementary Examinations, May - 2022
MOBILE COMPUTING
(Common to Computer Science and Engineering and Information Technology)

Time: 3 hours   Max. Marks: 70

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any FOUR questions from Part-B
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PART–A *(14 Marks)*

1.	a)	What is the role of VLR entity in a GSM network?	[2]
	b)	Present the limitations of WLANs.	[2]
	c)	How does a mobile node discover it has moved?	[2]
	d)	List advantages of hoarding the data at mobile device.	[3]
	e)	What are index-based methods?	[2]
	f)	How does WSP solve HTTP problems in wireless mobile environments?	[3]

PART–B *(4x14 = 56 Marks)*

2.	a)	With a neat sketch explain the steps involved in a mobile terminated call in GSM.	[7]
	b)	Explain how GPRS networks replace circuit switch services on second generation GSM communications.	[7]
3.	a)	Draw and discuss the protocol architecture of IEEE 802.11.	[7]
	b)	Briefly explain about various multiple access techniques.	[7]
4.	a)	Write a detailed notes on Dynamic Host Configuration Protocol.	[7]
	b)	What are the challenges with mobile IP with respect to high-speed mobility? How does cellular IP solve some of these challenges?	[7]
5.	a)	What is snooping TCP? What are its advantages and disadvantages?	[7]
	b)	Explain ACID transaction rules that should be maintained by database transactional models.	[7]
6.	a)	Describe domain-dependent specific rules for data synchronization.	[7]
	b)	Explain Query-processing architecture for processing a query using distributed databases.	[7]
7.	a)	Explain the session establishment procedure in WSP/B.	[7]
	b)	How MANETs are different from cellular mobile networks? Explain.	[7]

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