Code No: **RT41053** **R13** **Set No. 1**

IV B.Tech I Semester Supplementary Examinations, February - 2019

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 THREE questions from Part-B
*****

PART–A *(22 Marks)*

1.	a)	Enlist the applications of Mobile computing.	[4]
	b)	What is Exposed station problem?	[4]
	c)	What are the requirements for implementing Mobile IP?	[4]
	d)	List out advantages of Snooping TCP.	[3]
	e)	Write about different Broadcast models.	[3]
	f)	List the applications of MANETs.	[4]

PART–B *(3x16 = 48 Marks)*

2.	a)	With a neat diagram, Explain the architectural layers of mobile computing.	[8]
	b)	How the handover decision takes place in GSM depending on receiver signal strength? Explain.	[8]
3.	a)	Give the main reason for implementing specialized MAC in wireless networks.	[8]
	b)	Explain about the Code Division Multiple Access technique.	[8]
4.	a)	What is meant by Agent Discovery in IP routing? Explain the format of Agent Advertisement Packet.	[8]
	b)	Explain in detail about various ways of performing IP-in-IP encapsulation.	[8]
5.	a)	How a packet is delivered in Indirect TCP? Explain. Also discuss the advantages and disadvantages of I-TCP.	[8]
	b)	What do you mean by Query processing? Explain the Query Processing architecture.	[8]
6.	a)	Explain the Tree based Index/Distributed indexing scheme and also discuss its merits and demerits.	[8]
	b)	Explain about one-to many and many-to-many data synchronization mechanisms in mobile computing systems.	[8]
7.	a)	Discuss the challenges and issues in implementing MANETs.	[8]
	b)	Explain the Destination Sequenced Distance Vector routing protocol	[8]

||''|'''|''|'|''''||