

Eighth Semester B.E. Degree Examination, Dec.2019/Jan.2020 **Ad-hoc Networks**

Time: 3 hrs.

Max. Marks:100

Note: Answer FIVE full questions, selecting atleast TWO questions from each part.

		PART – A	
1	a.	List and explain the application of Ad-hoc wireless network.	(10 Marks)
	b.	With the help of neat diagram explain Ad-hoc wireless internet.	(10 Marks)
2	a.	Explain the design goals of a MAC protocol for Ad-hoc wireless networks.	(06 Marks)
	b.	Briefly explain 5 phase reservation protocol with frame structure.	(08 Marks)
	c.	Explain MACA with Piggy–Backed reservation.	(06 Marks)
3	a.	Explain the use of directional antennas in MAC protocols for Ad-hoc networks.	(06 Marks)
	b.	With the help of figure, explain Distributed Laxity Based Privities Schedulir	g Scheme
		(DLSP).	(08 Marks)
	c.	Explain interleaved carrier sense multiple access protocol.	(06 Marks)
4	a.	Explain any DSDV table driven routing protocol for Ad-hoc wireless network.	(10 Marks)
	b.	Explain the working of Adhoc on -Demand Distance Vector Routing Protocol (Ad	ODV).
			(10 Marks)
		DADT D	
		PART – B	
5	a.	Explain ZRP (Zone Routing Protocol) with figure.	(10 Marks)
	b.	Explain Preferred Link Based Routing Protocol (PLBR).	(10 Marks)
			(10111111)
6	a.	Explain the issues and design goals of transport layer protocol for Ad-hoc wireless	s network
		The state of the s	(10 Marks)
	b.	Give five reasons stating why TCP doesn't work well in Ad-hoc wireless network	
7	a.	Explain the four key network security requirements.	(04 Marks)
	b.	Briefly explain issues and challenges in security provisioning.	(08 Marks)
	c.	Explain with diagram, security aware Ad-hoc routing protocol.	(08 Marks)
8	a.	Briefly explain the issues and challenges in providing QoS in Ad-hoc wireless net	works.
	-		(08 Marks)
	b.	Explain the cluster-TDMA protocol used for providing MAC layer QoS solution	in Ad-hoc
		networks.	(06 Marks)
	C.	Write a note on hard state versus soft state resource reservation.	(06 Marks)