## SAVA INSTITUTE OF T

## Eighth Semester B.E. Degree Examination, Feb./Mar. 2022 **Adhoc Networks**

Max. Marks: 100 Time: 3 hrs.

Not	e: A	nswer any FIVE full questions, selecting at least TWO full questions from ed	ach part.	
		$\frac{PART - A}{A}$	1	
1	a.	Explain any 8 issues need to be considered when designing adhoc wireless networ	KS. (08 Marks)	
	h	List out any 8 differences between cellular networks and adhoc networks.	(08 Marks)	
	b.	Discuss following applications of adhoc wireless networks:	(	
	C.	i) Military ii) Emergency operations.	(04 Marks)	
		1) Willtary II) Emergency operations.		
2	a.	Explain hidden and exposed terminal problems with a neat diagram.	(05 Marks)	
_	b.	Explain Collision Avoidance Time Allocation protocol (CATA) frame form	nat with a	
	0.	diagram	(07 Marks)	
	c.	Explain working principle of Five Phase Reservation Protocol (FPRP) in detail.	(08 Marks)	
3	a.	Brief out factors to be considered while making scheduling decisions.	(04 Marks)	
	b.	Explain the operation of Distributed Priority Scheduling (DPS) protocol.	(06 Marks)	
	c.	Discuss Multichannel MAC (MMAC) protocol in detail.	(10 Marks)	
4	a.	Explain classification of routing protocols.	(08 Marks)	
	b.	List any 4 characteristics of an Ideal routing protocol for adhoc wireless networks	S. (04 Marks)	
		The second second route maintenance in Adhee On-Demand Distriction		
	C.	Explain route establishment and route maintenance in Adhoc On-Demand Dista	(08 Marks)	
		routing protocol (AODV).	(001.202)	
		PART - B		
5	0	F. J. C. F. Lusting Distributed Adhee Pouting (CEDAR) protocol by mentioning its		
3	a.	advantages and disadvantages.	(10 Marks)	
	b.	Explain the operation of Fisheye State Routing Protocol (FSRP).	(10 Marks)	
6	а	Explain any five issues in designing transport layer protocols for adhoc wireless	network.	
Ü			(IU Marks)	
	b.	With a neat diagram, explain the operation of Adhoc-TCP (ATCP) protocol	along with	
		advantages and disadvantages.	(10 Marks)	
			(10 Marks)	
7	a.	Briefly discuss any 5 network layer attacks.	(10 Marks) (04 Marks)	
	b.	Discuss any 4 requirements of secure routing protocol for adhoc networks.	(04 Marks)	
	c.	Explain security aware adhoc routing protocol with diagram.	(oo Marks)	
		The formation and support in adhoc networks	(06 Marks)	
8	a.	Discuss any 2 design choices for providing QoS support in adhoc networks.	(04 Marks)	

Explain the issues and challenges in providing QoS in Adhoc wireless networks. (10 Marks)

List the QoS parameters in adhoc wireless networks.