

## Eighth Semester B.E. Degree Examination, Aug./Sept. 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. b.	List and explain different applications of Ad-hoc wireless networks.  Explain the issues that makes wireless sensor network a distinct category of Ad-hoc wireless.	(10 Marks) oc wireless (10 Marks)
2	a. b.	Explain collision avoidance time allocation protocol frame format with a diagram. What are the design goals to be met while designing a MAC protocol for Ad-hoc	networks? (05 Marks)
	c.	Explain with example, a working principle of Five-Phase Reservation Protocol (F	PRP). (10 Marks)
3	a. b. c.	Explain the working principle of multi-channel MAC (MMAC) protocol. Explain MAC protocol using directional antennas. Explain the operation of distributed priority scheduling (DPS) protocol.	(08 Marks) (06 Marks) (06 Marks)
4	a. b.	With an example, explain the process of route establishment in wireless routing along with its advantages and disadvantages.  Write the classification of routing protocol in detail.	ng protocol (10 Marks) (10 Marks)
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5	a. b. c.	Explain the operation of Fisheye state routing protocol (FSRP). What are the advantages and disadvantages of CEDAR protocol? Explain zone routing protocol.	(10 Marks) (03 Marks) (07 Marks)
6	a. b.	Why does TCP not perform well in Ad-hoc wireless networks? Explain Ad-hoc TCP with state diagram for ATCP sender.	(10 Marks) (10 Marks)
7	a. b. c.	The state of the s	oc wireless (10 Marks) (04 Marks) (06 Marks)
8	a. b.	Discuss the working principle of Ticket – based QoS routing protocol. Explain the issues in providing QoS in Ad-hoc wireless network.	(10 Marks) (10 Marks)

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