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10CS/IS841

**Eighth Semester B.E. Degree Examination, Dec.2017/Jan.2018**  
**Ad-hoc Networks**

Time: 3 hrs.

Max. Marks:100

**Note: Answer FIVE full questions, selecting at least TWO questions from each part.**

**PART - A**

- 1 a. List the difference between cellular and adhoc wireless networks. (10 Marks)  
b. Discuss in brief the major issues and challenges that need to be considered when an adhoc wireless system is to be designed. (10 Marks)
- 2 a. Explain the fire-phase reservation protocol. (10 Marks)  
b. Explain Collision Avoidance Time Allocation (CATA) protocol. (10 Marks)
- 3 a. Describe distributed priority scheduling scheme. (10 Marks)  
b. Explain the directional busy tone based MAC protocol. (10 Marks)
- 4 a. Explain the wireless routing protocol. (10 Marks)  
b. Explain the Flow-oriented Routing protocol. (10 Marks)

**PART - B**

- 5 a. Explain ZRP routing protocol and give its advantages and disadvantages. (10 Marks)  
b. Explain Fishey state routing protocol. (10 Marks)
- 6 a. Explain issues in designing a transport layer for adhoc wireless networks. (10 Marks)  
b. Explain the application controlled protocol. (10 Marks)
- 7 a. Classify and explain network layer attacks in adhoc wireless networks. (08 Marks)  
b. Explain adhoc TCP (A-TCP) and split-TCP protocols. (12 Marks)
- 8 a. Briefly discuss the issues in QoS provisioning for adhoc wireless networks. (06 Marks)  
b. List the QoS parameters in adhoc wireless networks. (04 Marks)  
c. Explain cluster TDMA protocol supporting realtime traffic in adhoc wireless networks. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.