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BANGALORE - 560 037

10CS/IS841

**Eighth Semester B.E. Degree Examination, June/July 2018**

**Adhoc Networks**

Time: 3 hrs.

Max. Marks:100

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

**PART – A**

- 1 a. List out any five differences between cellular and adhoc wireless network. (05 Marks)  
b. With a schematic diagram, explain the major issues to be considered for a successful adhoc wireless internet. (10 Marks)  
c. Explain the major security threats that exist in an adhoc wireless network. (05 Marks)
- 2 a. What are the major issues in designing a MAC protocol for an adhoc wireless network? (06 Marks)  
b. With a neat frame format, explain Hop reservation multiple access protocol. (07 Marks)  
c. With an example, explain 5 phase reservation protocol. (07 Marks)
- 3 a. Explain in detail distributed wireless ordering protocol. (08 Marks)  
b. Explain in detail directional busy tone based MAC protocol. (08 Marks)  
c. List out other MAC protocols in adhoc network and explain any two protocols. (04 Marks)
- 4 a. With a suitable network, explain cluster head gateway switch (CGSR) routing protocol. (08 Marks)  
b. With a suitable network explain AODV protocol. (08 Marks)  
c. Explain any four characteristics of an ideal routing protocol for an adhoc network. (04 Marks)

**PART – B**

- 5 a. Explain Fisheye state routing protocol with necessary routing tables. (10 Marks)  
b. Explain in detail zone routing protocol (ZRP). (10 Marks)
- 6 a. What are the issues in designing a transport layer protocol for adhoc wireless network? (06 Marks)  
b. Why does TCP not perform well in adhoc wireless network? (10 Marks)  
c. What are the advantages and disadvantages of feedback based TCP? (04 Marks)
- 7 a. Explain network layer attacks in adhoc wireless network. (10 Marks)  
b. Explain the security aware adhoc routing protocol. (10 Marks)
- 8 a. What are the issues and challenges in providing QoS (Quality of Service) in ADHOC wireless network? (07 Marks)  
b. Explain Ticket based QoS routing protocol. (10 Marks)  
c. Give the layer wire classification of QoS solution. (03 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.