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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