USN ☐☐☐☐☐☐☐☐☐☐   10CS/IS841

Eighth Semester B.E. Degree Examination, Dec.2018/Jan.2019
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. Explain briefly applications of adhoc networks.   **(10 Marks)**
   b. List any five differences between cellular network and adhoc network.   **(05 Marks)**
   c. Explain briefly any five major challenges that routing protocol faces.   **(05 Marks)**

2 a. List and briefly explain design goals of MAC protocol for adhoc wireless network.**(10 Marks)**
   b. Explain briefly floor acquisition multiple access protocol and MACA with piggy backed
      reservation.   **(10 Marks)**

3 a. Explain briefly distributed Laxity based priority scheduling scheme.   **(10 Marks)**
   b. Explain briefly MAC protocol using directional antennas.   **(10 Marks)**

4 a. Explain briefly Destination Sequenced Distance Vector routing protocol (DSDV). **(12 Marks)**
   b. List and explain categories based on which routing protocol are classified.   **(08 Marks)**

PART – B

5 a. Explain briefly power aware routing metrics.   **(10 Marks)**
   b. Explain zone based hierarchical link state routing protocol.   **(10 Marks)**

6 a. Explain briefly why TCP does not perform well in adhoc wireless networks. **(10 Marks)**
   b. Give comparison of TCP solution for Adhoc wireless network with respect to various TCP
      protocols.   **(10 Marks)**

7 a. List and explain network layer attacks.   **(10 Marks)**
   b. Explain briefly symmetric and asymmetric key cryptography in adhoc networks. **(10 Marks)**

8 a. Explain briefly issues and challenges in providing QoS in adhoc networks. **(10 Marks)**
   b. Explain briefly classification of QoS solution in adhoc networks.   **(10 Marks)**

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