USN | | | | | | | | | | 10CS/IS841

Eighth Semester B.E. Degree Examination, July/August 2022
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. Bring out the differences between cellular network and ADHOC network. **(10 Marks)**
   b. List and explain major issues in adhoc wireless networks. **(10 Marks)**

2. a. Explain the issues that need to be addressed while designing a MAC protocol for adhoc networks. **(10 Marks)**
   b. Briefly explain the five phase reservation protocol with frame structure. **(10 Marks)**

3. a. Give brief explanation of Distributed Wireless Ordering Protocol (DWOP). **(10 Marks)**
   b. Explain MAC protocol using directional antennas. **(10 Marks)**

4. a. Explain any three issues in designing a routing protocol for adhoc wireless networks. **(06 Marks)**
   b. Give the classification of routing protocols for ADHOC networks, based on the routing information update mechanism. **(06 Marks)**
   c. Write a short note on dynamic source Routing protocol. **(08 Marks)**

PART – B

5. a. Explain any one hierarchical Routing protocol. **(10 Marks)**
   b. Explain the zone routing protocol with an example. **(10 Marks)**

6. a. List out the design goals of a transport layer protocol for adhoc wireless network. **(10 Marks)**
   b. Discuss briefly any five reasons, why TCP does not perform well in Adhoc wireless networks. **(10 Marks)**

7. a. Briefly explain the network layer attacks. **(10 Marks)**
   b. Write short note on symmetric and asymmetric key algorithms. **(10 Marks)**

8. a. Explain the issues and challenges in providing QoS in adhoc wireless networks. **(10 Marks)**
   b. Explain Ticket-Based QoS routing protocol. **(10 Marks)**

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