

Comp - sem VIII let eBGS
Adhoc wireless networks

Q.P. Code : 721103

(3 Hours)

[Total Marks : 80

- N.B. :** (1) Question No.1 is compulsory.
(2) Attempt **any three** of remaining **five** questions.
(3) Assume any suitable **data** if **necessary** and **clearly state it**.

1. (a) What is hidden terminal problem? Explain with an example. 5
(b) Explain the major classification of routing protocol for ad hoc wireless network. 5
(c) Why does TCP not work well in ad hoc network? Give any four reasons. 5
(d) Explain the major types of resource consumption attacks. 5
2. (a) Give the difference between cellular networks and ad hoc wireless networks. 10
(b) List the main issues in designing a MAC protocol for ad hoc wireless networks. 10
3. (a) Compare the efficiency of the packet queuing mechanism adopted in MACA and MACAW. 10
(b) What is count to infinity problem? How DSDV protocol provides solution to address the problems of looping and count to infinity? Explain with an example. 10
4. (a) Explain any one scheduling protocol in detail. 10
(b) How link failure situation is handled in AODV protocol? Explain with an example. 10
5. (a) Briefly explain the state transition diagram for Adhoc TCP sender (ATCP). 10
(b) List and brief the various multi-layer attacks possible in Ad hoc networks along with the proposed solutions for countering those attacks. 10
6. (a) Explain route discovery and route maintenance processes in On-demand QoS routing Protocols. 10
(b) Write a short note on 802.11g IEEE standard. 10