

Roll No.

Total Pages : 3

203501

Dec., 2018

B.Tech. Vth Semester

MOBILE AD-HOC NETWORKS

(IT-301C)

Time : 3 Hours]

[Max. Marks : 75

Instructions :

- (i) *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
- (ii) *Answer any four questions from Part-B in detail.*
- (iii) *Different sub-parts of a question are to be attempted adjacent to each other.*

PART-A

1. (a) What do you understand by the term vicinity of node?
(1.5)
- (b) Justify why DSDV is named as Destination Sequenced?
(1.5)
- (c) Explain the reason of hidden terminal problem in adhoc network.
(1.5)
- (d) Give the significance of different colours of tickets in ticket based scheduling.
(1.5)

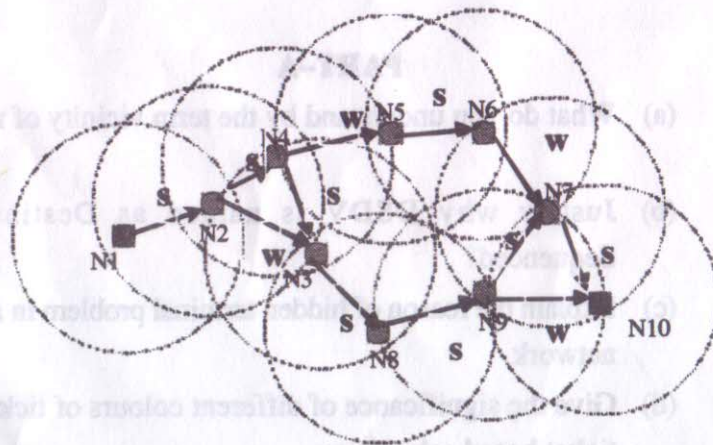
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- (e) Differentiate between flooding and multicasting. (1.5)
- (f) Explain near and far problem. (1.5)
- (g) List any *two* disadvantages of adhoc network over traditional wireless network. (1.5)
- (h) Give reasons why INSIGNIA is better QoS Approach? (1.5)
- (i) Give various reasons for path failure. (1.5)
- (j) What is Route Configuration Time? (1.5)

PART-B

- 2. (a) Explain Class-based Fine Feedback Scheme for INORA Routing Protocol. (5)
- (b) Explain the route finding process using Signal Stability Based Routing approach for the following routing topology. (10)



- 3. Differentiate between :
 - (a) IntServ and DiffServ
 - (b) Delay free and No Delay free approach for battery scheduling
 - (c) Proactive and Reactive Routing (5*3)
- 4. Explain TORA in Detail along with advantages, disadvantages and example. (15)
- 5. (a) Explain the following term :
 - (i) TTL.
 - (ii) Beacon Messages.
 - (iii) Global Positioning System.
 - (iv) Hard QoS.
 - (v) Bandwidth. (5)
- (b) Explain Various Power Aware Routing Metrics. (10)
- 6. (a) What are the disadvantages of using Cluster Based Routing. (5)
- (b) Explain Dynamic Source Routing along with advantages and disadvantages. (10)
- 7. Explain the following :
 - (a) QAODV.
 - (b) Issues in designing routing protocol for adhoc network.
 - (c) Wireless Routing Protocol (5*3)