

Code: 9D08202

M.Tech II Semester Supplementary Examinations January/February 2017

MOBILE ADHOC NETWORKS

(Computer Networks)

Time: 3 hours

Max. Marks: 60

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Describe briefly about the various mobile and wireless devices available.
(b) Explain the different frequency bands at which the radio transmission takes place.
- 2 (a) Discuss in detail about the frequency division multiple access.
(b) How multiple access with collision avoidance can avoid hidden terminals?
- 3 (a) List and explain different entities and terms needed to understand mobile IP.
(b) Explain hierarchical ad-hoc routing with an example of ad-hoc network.
- 4 (a) Discuss about the congestion control in traditional TCP.
(b) What are the advantages and disadvantages of snooping TCP?
- 5 (a) Explain briefly the characteristics of the wireless channel.
(b) What are the major challenges that a routing protocol designed for ad-hoc wireless networks faces? Explain.
- 6 With suitable example, explain multicast ad-hoc on-demand distance vector routing protocol. Explain its advantages and disadvantages.
- 7 (a) What are the important goals to be met while designing a transport layer protocol for ad-hoc wireless networks? Explain.
(b) What are the different application layer attacks? Explain.
- 8 (a) Explain in detail about the various QoS parameters in ad-hoc wireless networks.
(b) Discuss about the need of energy management in ad-hoc wireless networks.
