

Reg. No. :

--	--	--	--	--	--	--	--	--	--	--

Question Paper Code: 39402

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Elective

Electronics and Communication Engineering

01UEC902 - MOBILE AD-HOC NETWORKS

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. List the applications of MANET.
2. Mention the characteristics of wireless channel.
3. What are the issues of designing a MAC protocol for ad-hoc networks?
4. Differentiate between HRMA and SRMA.
5. Compare proactive and reactive routing.
6. Where is network layer solution used for QoS.
7. Define security routing.
8. Deduce some issues in designing transport layer protocol.
9. Define cross layer design.
10. What is the use of cross layer feed back?

PART - B (5 x 16 = 80 Marks)

11. (a) (i) Differentiate between cellular network and Ad hoc network. (8)
(ii) Discuss the applications of mobile ad hoc networks and explain it. (8)

Or

- (b) Explain ad-hoc indoor mobility models in detail. (16)

12. (a) Explain the scheduling table update mechanism in distribute priority scheduling in detail. (16)

Or

- (b) Explain IEEE 802.11g standard in detail. (16)

13. (a) Classify and explain the routing protocols in Adhoc networks. (16)

Or

- (b) Explain multicast routing algorithm in detail. (16)

14. (a) (i) List the design goals of a transport layer protocol for ad hoc wireless networks. (4)

- (ii) Classify the transport layer solutions. (4)

- (iii) Explain Ad hoc TCP in detail. (8)

Or

- (b) List and brief various network and transport layer attacks in detail. (16)

15. (a) Why Integration of Ad-hoc with Mobile IP Networks is required? Explain this integration concept in detail. (16)

Or

- (b) Explain integration of ad-hoc with mobile IP networks in detail. (16)