Reg. No. : | | | | | | | | | | |

Question Paper Code: 39402

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

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. Define indoor propagation model.
2. List the characteristics of wireless channels.
3. Classify the types of protocols used to handle multiple access issues?
4. Show the frame format of IEEE 802.11 physical layer using FHSS.
5. Compare proactive and reactive routing protocols.
6. How does energy aware routing works?
7. List the issues in designing a transport layer protocol for Ad hoc wireless networks.
8. What is hybrid routing 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) Discuss about the issues in designing ad-hoc wireless networks. (16)

Or

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

12. (a) Explain contention based protocols with reservation mechanisms in detail. (16)

Or

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

13. (a) Illustrate table driven routing protocol with an example. (16)

Or

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

14. (a) Why does TCP not perform well in Adhoc wireless networks? (16)

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) Describe how to integrate Adhoc with mobile IP? (16)

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