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**Question Paper Code: 39046**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

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 ad Hoc networks.
2. State Nyquist rate.
3. Give the classifications of MAC protocol.
4. Write the frame format of 802.11.
5. Compare proactive and reactive routing.
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) Explain the characteristics of wireless channels. (16)

Or

(b) (i) Compare cellular and ad Hoc networks. (8)

(ii) Explain ad hoc indoor mobility models in detail. (8)

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

Or

(b) Discuss the various HIPERLAN standards defined for wireless Networks by ETSI. (16)

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

Or

(b) How routing table is constructed in fisheye state routing protocol? Explain in details. (16)

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

Or

(b) Illustrate the various types of network security attacks in details. (16)

15. (a) How the cross layer feedback can be categorized? Explain in details with its advantages and disadvantages. (16)

Or

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

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