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Question Paper Code : 91389

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

Eighth Semester

Electronics and Communication Engineering

EC 2050 / EC 804 / 10144 ECE 53 — MOBILE ADHOC NETWORKS

(Regulation 2008 / 2010)

(Common to PTEC 2050 – Mobile Adhoc Networks for B.E. (Part-Time)
Seventh Semester – ECE – Regulation 2009)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

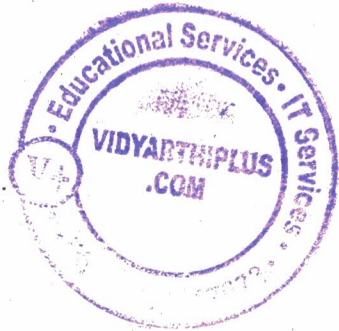
1. State any two applications of Adhoc Network.
2. Mention any two significant characteristics of Wireless channel.
3. State the design issues involved in MAC Protocol.
4. Define HIPERLAN.
5. Distinguish between Proactive Routing and Reactive Routing.
6. Write about QoS aware routing.
7. Define Transport layer.
8. Why security is essential in End to End Delivery in transport layer?
9. What is the necessity of cross layer design?
10. Define cross layer cautionary prespective.

PART B — (5 × 16 = 80 marks)

11. (a) Define Adhoc Network. Explain in detail about Adhoc Network with its significant aspects.

Or

- (b) Discuss in detail about Indoor and Outdoor models in Adhoc Mobility Models.



12. (a) Explain in detail about Contention based protocols with reservation.

Or

(b) Illustrate IEEE 802.11a and 802.15 Standards in detail.

13. (a) Briefly discuss about Unicast and Multicast Routing Algorithm.

Or

(b) Explain in detail about Hierarchical Routing.

14. (a) Discuss in detail about Adhoc transport protocols.

Or

(b) Write a short note on :

(i) Network Security Attacks.

(ii) Secure Routing Protocols.

15. (a) Explain in detail about the parameter optimization techniques.

Or

(b) Explain in detail about Integration of Adhoc with Mobile IP Networks.

