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Question Paper Code : X60430

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020

Eighth Semester

Electronics and Communication Engineering

EC 2050/EC 804 – MOBILE ADHOC NETWORKS

(Regulations 2008)

(Common to PTEC 2050 – Mobile Adhoc Networks for B.E. (Part-Time)

Seventh Semester – ECE – Regulations 2009)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. What are the multipath components in Adhoc networks ?
2. Write the transmission impediments of the wireless channel.
3. What are the goals of Medium Access Protocols ?
4. Define HIPERLAN.
5. What does power-aware routing aim ?
6. List the merits of geographical information assisted routing.
7. What are the different attacks possible over Adhoc networks ?
8. What are the issues to be considered while designing a transport layer protocol for Adhoc networks ?
9. What is the need for cross layer design ?
10. What are the parameter optimization techniques available ?

PART – B

(5×16=80 Marks)

11. a) How the path loss and fading affects the wireless channel ? Explain it. (16)
- (OR)
- b) i) Compare Cellular and Adhoc Wireless Networks. (8)
 - ii) What are the issues and challenges of Adhoc System ? (8)



12. a) Explain in detail about Contention based protocols with reservation. **(16)**
(OR)
b) Describe IEEE Standards 802.15 in detail. **(16)**
13. a) i) Discuss the major challenges that a routing protocol designed for Adhoc wireless networks faces. **(10)**
ii) Discuss the types of Adhoc network routing protocols based on routing information update mechanism. **(6)**
(OR)
b) i) List the characteristics of ideal routing protocol for Adhoc wireless network. **(10)**
ii) Classify and explain Adhoc wireless networks based on routing topology. **(6)**
14. a) Explain why TCP is not able to perform well in Adhoc wireless network. **(16)**
(OR)
b) List out the issues of transport layer protocol design for Adhoc wireless networks. **(16)**
15. a) Describe how to integrate Adhoc with mobile IP. What are the advantages? **(16)**
(OR)
b) Explain any one of the cross layer optimization method and how it improve the performance of the routing Adhoc networks. **(16)**
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