-END TERM EXAMINATION

EIGHTH SEMESTER [B.TECH] SEPTEMBER-OCTOBER 2020

Subject: Adhoc and Sensor Network Paper Code: ETEC-406 Time: 2 Hours Maximum Marks: 75 Note: Attempt any three questions, Assume missing data suitably if any. (D) af State the difference between Cellular Network and Ad Hoc Wireless network. by List and explain the issues and goals in designing a MAC protocol for ad hoc wireless networks. (7)of Explain the hidden and exposed problems with an example. (6) d What is contention based protocol? Discuss. (6) a Explain about the Contention-based MAC protocols with scheduling mechanism. What are the advantages of reservation based MAC protocols over contention based MAC protocols? Discuss. c) Discuss the services provided by IEEE 802.11. (8) (8) al Discuss the major functions performed by the TCP. Q3 b) Explain goals to be achieved in transport layer protocol for ad hoc wireless networks. Discuss table driven protocols with example. (8) at What is hybrid routing protocol? Explain. Describe in detail the design issues in routing and transport layer protocols. Explain the demand routing protocol in detail. (6) Explain the major reasons behind that TCP not perform well in Ad hoc (7) a Compare wireless sensor network with ad hoc network. Q5 Write a note on load balancing in hybrid wireless networks. (8) Explain the functions performed by a node in a wireless sensor network. (8) (9) a) What are the challenges caused by sensor network MAC 06 protocol? b) Discuss about power control schemes in hybrid wireless networks. (9) cj Discuss the architecture of wireless sensor network with diagram. (8) (8) aj Define and explain Quality of Service. Q7 b) Explain the wireless geolocation system architecture. c) Write a note on Geolocation standards for E-911 Services. (8) (8) (9) Q8 Explain the flowing: a) Ultra-Wide-Band Radio Communication. b) Optical Wireless Networks (12.5)(12.5)
