ME ELX / SEM-II / CBCGS / DS- 25/5/2017

Q.P. Code :18262

(Time: 3 hours)   Total Marks: 80

Please check whether you have got the right question paper.

NOTE: 1. Question 1 is compulsory. Attempt any three of the remaining five questions
        2. Draw figures wherever necessary

Q.1.   **Answer any four of the following:**   20
   a)   Explain the Power control and Power saving mechanisms in Wireless networks.
   b)   Bring out the salient features of MANETS.
   c)   Differentiate between Cellular networks and Adhoc Networks.
   d)   Explain the significance of "Hidden stations" and "Exposed stations" in Wireless networks.
   e)   Bring out the advantages and disadvantages of Reactive (On demand) routing protocols.

Q.2.a) Explain the following operations of Mobile IP: 10
        (i) how the Correspondent Node(CN) communicates with Mobile Node(MN)
        (ii) Tunnelling
   b)   Give the classification of MAC protocols. Explain any one Contention based MAC   10
        protocol.

Q.3.a) Give the classification of routing protocols for MANETs.Explain DSDV routing   10
        protocol with an example.
   b)   Bring out the features of Clustering and Hierarchical Routing. In WSN. Explain the   10
        LEACH (Low –Energy Adaptive Clustering Hierarchy) Protocol in detail.

Q.4.a) What is meant by data gathering in WSN? Discuss briefly few algorithms that   10
        implement data gathering.
   b)   Explain with a neat diagram , sensor node technology of Wireless sensor   10
        networks
        And discuss the various applications of WSN.

Q.5.a) Explain the issues and design goals of Transport layer protocol for Adhoc   10
        networks. Explain briefly why the TCP does not perform well in Adhoc wireless
        networks
   b)   Explain Data Dissemination methods in WSN.   10

Q.6   **Write short note on (any FOUR)**   20
   a)   Spectral sensing in Cognitive Radio networks
   b)   MAC Frame format in Wireless LANs
   c)   Classification of Multicast routing in MANETS
   d)   Dynamic source Routing and its advantages.
   e)   QOS issues in MANETS

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