R20

Code No:873AF

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA III Semester Examinations, March/April - 2022
AD-HOC AND SENSOR NETWORKS

Time: 3 Hours   Max.Marks:75

Answer any five questions
All questions carry equal marks
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1.a) What are the important characteristics of Mobile ad hoc networks (Manets)?
 b) What are the important applications of Manets?   [8+7]

2.a) Illustrate the working of AODV routing protocol for Manets.
 b) Explain about DSR algorithm.   [7+8]

3.a) Write about Jitter and RDT, the design considerations of Broadcast protocol.
 b) Write about Probability-based solutions for Broadcasting.   [8+7]

4.a) Write about MAODV protocol with an illustration.
 b) Explain about AMRoute and MCEDAR.   [8+7]

5.a) Distinguish Geocast routing from broadcast and multicast. Give the classification of geocast solutions for Manets.
 b) Write about GeoGRID geocast protocol for Manets.   [8+7]

6.a) Distinguish the solutions for TCP over ad hoc link-TCP-F and ELFN
 b) What is Capture effect over TCP? Give one solution for the same. [8+7]

7.a) Write about Directed Diffusion routing protocol for WSNs.
 b) Illustrate the concept in LEACH protocol with the formula for CH selection. [7+8]

8.a) What is the need for in-network processing in WSNs? Explain the related mechanisms for the same.
 b) Explain the concepts for adapting to dynamic nature of wireless sensor networks. [8+7]

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