**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) b)	What are the important characteristics of Mobile ad hoc networks (Manets)? What are the important applications of Manets?	[8+7]
2.a) b)	Illustrate the working of AODV routing protocol for Manets. Explain about DSR algorithm.	[7+8]
3.a) b)	Write about Jitter and RDT, the design considerations of Broadcast protocol. Write about Probability-based solutions for Broadcasting.	[8+7]
4.a) b)	Write about MAODV protocol with an illustration. Explain about AMRoute and MCEDAR.	[8+7]
5.a)	Distinguish Geocast routing from broadcast and multicast. Give the classifigeocast solutions for Manets	ication of
b)	Write about GeoGRID geocast protocol for Manets.	[8+7]
6.a) b)	Distinguish the solutions for TCP over ad hoc link-TCP-F and ELFN What is Capture effect over TCP? Give one solution for the same.	[8+7]
7.a) b)	Write about Diffusion routing protocol for WSNs.  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	
b)	the same.  Explain the concepts for adapting to dynamic nature of wireless sensor networks.	
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