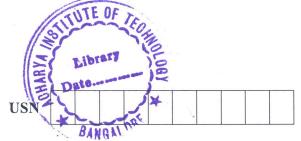
(20 Marks)



Fifth Semester MCA Degree Examination, Dec.2019/Jan.2020 Mobile and Adhoc Sensor Networks

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

		Note: Answer any FIVE juli questions.	
1	a.	List and explain the different types of wireless networks depending on the criteria their classification.	(06 Marks)
	b. With a neat diagram, explain the functionalities of RF layer, baseband layer and lin		
	٠.	manager layer in Bluetooth protocol stack.	(08 Marks)
	c.	Explain: i) Blueroot ii) Bluestar iii) BlueNet protocols used in scatternet for	•
		multihop Bluetooth network.	(06 Marks)
			•
2	a.	Explain with the help of diagram localized routing methods.	(10 Marks)
	b.	Explain cluster-based flooding.	(10 Marks)
3	a.	Discuss the need for the internet layer routing and dynamic wireless networks	
	1	networks.	(10 Marks)
	b.	Explain the typical design goals for Ad-hoc network routing protocols.	(10 Marks)
4	a.	Explain the wireless characteristics and applicabilities of MANET.	(10 Marks)
	b.	Explain the route selection metrics for energy efficient communication in MANET	(10 Marks)
			(10 marks)
5	a.	Explain the performance metrics used to estimate MANET's by simulation.	(10 Marks)
	b.	What is path? Give any four examples of path problems.	(10 Marks)
6	a.	Explain the design constraints for wireless sensor networks.	(10 Marks)
	b.	List and explain the various ranges of category 1 USN applications.	(10 Marks)
7		Explain the four basic hardware subsystems of wireless nodes.	(10 Marks)
/	a. b.	Explain the design constructs for WSNs (Wireless Sensor Nodes) and WNs	
	υ.	nodes).	(10 Marks)
			,
8		Write a short notes on:	
		Destination acquered distance yester (DSDV) protocol	

- a. Destination-sequenced distance -vector (DSDV) protocol
- b. Digital radio properties
- c. Application of sensor networks
- d. WN trends.