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Code No: 128AA

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## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, July - 2019 ADHOC AND SENSOR NETWORKS

7 A N. 23	This question paper contains two parts A and B.  Part A is compulsory which carries 25 marks. Answer all questions in Part consists of 5 Units. Answer any one full question from each unit. Each question marks and may have a, b, c as sub questions.	A. Part B	/
A (1.a) b) c)	How routing algorithms are classified in MANETS?  List out the characteristics of mobile adhoc networks.  Define Multicasting?	25 Marks) [2] [3] [2]	/
d) e) f) g) h) i) j)	How does the Hidden Terminal Problem affect TCP over multi-hop MANETs?  Define Mica Mote  List down the applications of wireless sensor networks?  Illustrate the three categories of Sensor Network Hardware?  Discuss about cooperation in MANETS?  Briefly explain component interface in nesC code.  What are the components of TinyOS?	[3] [2] [3] [2] [3] [2] [3]	/
PART - B			
2. 3.	List and explain the applications in Mobile Ad Hoc Networks.  OR  Give an example to explain any one topology based routing protocol.	50 Marks) [10] [10]	/
4.	Describe in impact of MAC layer and Network layer on TCP.  OR	[10]	
$\triangle \bigcirc_{6}$ .	Explain the drawback of the TCP exponential back-off algorithm in MANETS.  Explain elustering architecture of WSNs and the importance of the density of the Network for the effective use in its applications.  OR	[10] wsn [10]	/
	Describe in detail about Sensor-MAC protocol and its design trade-offs f consumption.	or energy [10]	
	What are the challenges of sensor network programming? Explain.  OR  Describe in detail the IDS Architecture for Adhoc and Sensor networks with neat	[10] sketch [10]	/
10.	Describe TinyGAL programming model with its implementation details.  OR	[10]	
t continu	Explain NS-2 simulator with its sensor network extensions. Compare Ns-2 simulation of the counter parts.	ttor with	/