## Code No: 118AA

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, May - 2017 **ADHOC AND SENSOR NETWORKS**

(Common to CSE, IT)

	3 hours Max. Ma	rks: 75
Note:	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 questi 10 marks and may have a, b, c as sub questions.	
	PART - A	
1 \	·	<b>5 Marks)</b>
1.a)	What are factors that influence the routing in a MANET?  Explain the location based scheme	[2]
b) c)	Explain the location based scheme.  What are the challenges of TCP over adhoc networks?	[3] [2]
d)	Explain the classification of nodes in the network by using CAMP.	[3]
e)	Distinguish between static channel and dynamic channel allocations.	[2]
f)	Explain about the Mica mote.	[3]
g)	Explain the steps involved in the Burmester and Desmedt protocol.	[2]
h)	What are the drawbacks of CLIQUES protocol?	[3]
i)	Explain the features of Tiny GALS.	[2]
j)	What are the components of TinyOS?	[3]
	PART - B	
	(5	0 Marks)
2.	Explain how to find the route from source to destination by using DSR protocol OR	. [10]
3.	Explain three phases of ABR protocol.	[10]
4.a) b)	Explain the drawback of the TCP exponential backoff algorithm in MANETS. Distinguish between LBM scheme 1 and LBM scheme 2.  OR	[5+5]
5.	Explain about the multicast zone routing protocol.	[10]
6.	Explain the design of routing protocol for WSNs which influence fault security, connectivity, Adhoc deployment and QoS.  OR	tolerance, [10]
7.	Explain about the Multipath based routing in WSNs.	[10]
8.a)	Explain the components of sensor nodes.	
b)	Explain about the GDH 3 protocol.	[5+5]
,	OR	L J
9.a)	Explain about the N – Party Diffie Hellman Key Agreement protocol.	
b)	What are the challenges of sensor network programming?	[5+5]
10.	Explain the architecture of TOSSIM.  OR	[10]
11.	Explain about the ns-2 and its sensor network extension.	[10]
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