[5+5]

Code No: 128AA

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

753.	(Common to CSE, 11)	
	3 hours	Max. Marks: 75
Note:	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all question consists of 5 Units. Answer any one full question from each unit. Each marks and may have a be as sub-questions.	
	marks and may have a, b, c as sub questions.	
	PART - A	
		(25 Marks)
1.a)	What is Multipoint Relay?	[2]
b)	What are the features of Cluster Head Gateway Switch routing protoco	
c)	Explain how to classify the Multicast routing protocol.	[2]
d)	What are the drawbacks of flooding?	[3]
e)	What is the motivation behind the design of protocols for WSN?	[2]
f)	What are the applications of WSNs?	[3]
g)	Explain about the integrity in adhoc networks?	[2]
h)	What are the assumptions of secure routing protocols in WSNs?	[3]
i)	Discuss about ns 2 simulator.	[2]
j)	What is TOSSIM?	[3]
J/	,, 1 15 1 5 5 5 2 1 2 1	[0]
	PART - B	
		(50 Marks)
2 0)	Evaloin how to anosto the much in ODMDD	
2.a)	Explain how to create the mesh in ODMRP.	adhaa natuuanka
b)	Distinguish between topology based and Position based approaches in	
	OP	[5+5]
2 0)	OR What are the characteristics of MANETs?	
3.a)		dain the Greedy
b)	List out the major forwarding strategies in Position Based routing. Exp Packet Forwarding strategy.	•
	racket Polwarding strategy.	[5+5]
4.a)	Explain why traditional TCP cannot be used in wireless adhoc network	7 9
b)	Describe the Voronoi Diagram based Geocasting (VDG) protocol.	[5+5]
0)	OR	[5+5]
5.a)	Explain the header format of TCP.	
b)	Explain the classification of broadcasting protocols in MANETs. Explain the classification of broadcasting protocols in MANETs.	plain the Area based
٥,	method.	[5+5]
		[]
6.a)	Explain the functional block diagram of sensor node.	
b)	Describe about the hierarchical Power Aware routing in WSNs.	[5+5]
,	OR	
7.a)	What are the advantages of WSN over wired ones?	

Explain how to find the Multiple Paths in WSNs.

b)

8.a)	Explain about the architecture of intrusion detection system for adhoc networks.	
b)	Explain the problems that affect secure adhoc routing.	[5+5]
	OR	
9.a)	Explain about the Octopus protocol.	
b)	Explain about the key management in sensor networks.	[5+5]
10.a)	Explain about the characteristics of nesC.	
b)	What is importance of TinyGALS?	[5+5]
	OR	
11.	Explain the architecture of TinyOS.	[10]
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