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DAYANANDA SAGAR COLLEGE OF ENGINEERING
(An Autonomous Institute Affiliated to VTU, Belagavi)
 ShavigeMalleshwara Hills, Kumaraswamy Layout, Bengaluru-560078
Department of Telecommunication Engineering
Online Continuous Internal Assessment Test - I

Course: **MANETS**

Course Code: 17TE7DCMAN

50Semester: **VII 'A' &'B'**

Date: 06/10/2020

Maximum marks:

Duration: **90 Min**

Note: Answer 5 full questions.		Marks
1.(a)	Wireless mesh networks operate at the license free ISM bands around ____ and ____ i) 2.4GHz, 5GHz ii) 2 GHz, 4G Hz iii) 10 GKz , 15 GH iv) None of these	1x10
(b)	The Maximum data rate supported by IEEE 802.11a is ____ i) 100Mbps ii) 54Mbps iii) 64Mbps iv) 10Mbps	
(c)	QOS Parameters in Adhoc networks are i) Bandwidth ii) delay iii) jitter iv) All of these	
(d)	____ technique are essential to distribute the load so as to avoid the situation where the gateway nodes become the bottleneck i) Load balancing ii) Traffic balancing iii) Capacity balancing iv) Weight balancing	
(e)	ARP & DNS are related to____ discovery in wireless networks i) Service ii) address iii) location iv) position	
(f)	Unique issues of Adhoc wireless networks are i) Node mobility & limited bandwidth availability ii) error prone broadcast channel, hidden & exposed terminal problem , power constraint iii) Both A & B iv) None of these	
(g)	____ protocol which overcomes the hidden terminal problem i) MACAW ii) MACA iii)BTMA iv) None of these	
(h)	Control packet in MACAW is____ i) RTS ii)RRTS iii) ACK iv) DS	
(i)	Location Tracking service is done by ____ system i) GPS ii) GPRS iii) TDMA iv) CDMA	

(j)	The attempts made by the malicious nodes to perceive the nature of activities and to obtain the information transacted in the network without disrupting the operation is _____ i) Active attack ii) Internal attack iii) external attack iv) Passive attack	
2	Describe the major issues that affect the design, deployment and performance of an adhoc networks.	10
3	With suitable examples, describe the different energy management categories which will enhance the life time of the networks.	10
4a	Compare the major difference between the cellular and adhoc networks	05
4b	Describe QOS parameters, QOS-aware routing and QOS framework in Ad-hoc networks for quality of provisioning quality of service.	05
	(OR)	
5	Assume that there are four nodes in Adhoc network, discuss about the MACAW protocol with packet exchange diagram networks.	10
6	Using the Busy tone multiple access protocol describe the design process. of overcoming the hidden terminal problem in Adhoc networks	10
	(OR)	
7	MAC protocols for ad hoc wireless networks are classified into several categories based on initiation approach, time synchronization and reservation approach, discuss the classification based on this and give example for each.	10

Faculty: Dr. VINOD B DURDI