Reg. No.										
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DEPARTMENT OF MECHATRONICS VII SEMESTER B.TECH. (MECHATRONICS)

END SEMESTER EXAMINATIONS (PART-A), December 2021

SUBJECT: WIRELESS SENSOR NETWORKS [MTE 4083]

(Date: December 20, 2021)

Time: 45 + 5 Minutes MAX. MARKS: 30

Q. No		M	CO	PO	LO	BL
110	MCQ Type Questions $(1 \times 30 = 30)$					
1.	WSN are spatially distributed sensors. a. Autonomous b. Dependent c. Bi-directional d. None of these	1	1	1	1	1
2.	sensor is selected to measure a physical quantity at the point of the sensor node without actually manipulating the environment by active probing. a. Active b. Passive, omnidirectional c. Passive, narrow-beam d. None of these	1	1	1	1	2
3.	In BPSK (Binary Phase Shift Keying), phase shifts of are utilized. a. 0 and $\pi/2$ b. 0 and π c. $\pi/2$ and π d. $\pi/2$ and $3\pi/2$	1	1	1	1	1
4.	The solution for hidden-terminal and exposed-terminal problems is a. Busy-tone solution b. Multihop frequency solution c. Collision detection d. None of these	1	2	1	1	2
5.	In low duty cycle protocols, the is called as node's duty cycle. a. Ratio of listen period length to the sleep period length b. Ratio of listen period length to the wakeup period length c. Ratio of sleep period length to the wakeup period length d. Ratio of sleep period length to the listen period length	1	2	1	1	1
6.	The number of channels used for PAMAS protocol are a. One	1	2	1	1	1

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c. Three d. Four 7. In LEACH protocol, the function of the clusterhead is a. To create and maintain a TDMA schedule b. To perform data communication between two slave nodes c. To identify errors in data communication d. None of these 8 adaptive protocol is used to send data packets to all of its neighbors without having to evaluate the nodes' capability. a. Flooding b. Gossiping c. Synthesis d. None of these 9. A process that selects paths for traffic in a network is called I a. Routing b. Flooding c. Connecting d. None of these 10. The real-time routing protocol, SPEED selects a data packet a. Single b. Double c. Triple d. Quadruple 11. A sensor node with a processing unit has computational power. a. Limited b. Minimum c. Maximum d. Zero 12. UDP is selected as a transport protocol. a. Connection-oriented b. Connectionless c. End-to-end connection d. None of these 13. In protocol, only one phase decides the establishment of connection between the sender and the receiver. a. Connection between the sender and the receiver. b. Data storage d. None of these 14. In middleware, protocol examines the effectiveness of data		1 m	<u> </u>		1		
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d. None of these 15. The disadvantages of middleware in WSN are 1 3 1 1 2		÷					
15. The disadvantages of middleware in WSN are 1 3 1 1 2							
a. System services to diverse applications	15.		1	3	1	1	2
		a. System services to diverse applications					
b. Slow connection between application and database server		b. Slow connection between application and database server					
c. Coordinates and supports multiple applications							
d. None of these		d. None of these					

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47		4			4	
16.	Sensor-based operating systems make use of service/s to	1	4	1	1	2
	manage and coordinate the system resources.					
	a. An application layer for communication					
	b. A physical layer for interconnection					
	c. A hardware abstraction layer for accessing the various					
	sensing devices and a network interface for communication					
	d. None of these					
17.	In TinyOS operating system, multiple modules and other	1	4	1	1 1	1
	configurations bundled together build a newly abstracted component					
	known as					
	a. Ex pansion					
	b. Congestion					
	c. Configuration					
	d. nesC					
18.	WiMAX-enabled devices are designed basically for	1	4	1	1	2
10.	communication.	1	7	1	1	4
	~1					
	b. Long-distance					
	c. Medium-range					
10	d. None of these	4				
19.	The piconet Bluetooth network is designed such that only	1	4	1	1	2
	nodes can communicate with each other.					
	a. Slave-slave					
	b. Master-master					
	c. Master-slave					
	d. None of these					
20.	Bluetooth is selected as a technology for interconnecting	1	4	1	1	1
	devices over short distances.					
	a. WLAN (Wireless Local Area Network)					
	b. WMAN (Wireless Metropolitan Area Network)					
	c. WPAN (Wireless Personal Area Network)					
	d. WWAN (Wireless Wide Area Network)					
21.	Zigbee is an open worldwide standard for mesh networking that	1	4	1	1	2
	utilizes power.	_	•	_	•	_
	a. Zero					
	b. Low					
	c. High					
	d. None of these					
22		1	1	1	1	2
22.	Zigbee is an open worldwide standard for mesh networking that	1	4	1	1	2
	utilizes bandwidth.					
	a. Zero					
	b. Low					
	c. High					
	d. None of these					
23.	technology is to be chosen for radio communication of up to	1	4	1	1	2
	65000 cell nodes.					
	a. Bluetooth					
	b. Zigbee					
	c. WiMAX					
	d. None of these					
24.	technology is to be chosen for radio communication of	1	4	1	1	2
	maximum of 8 cell nodes.					

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				1		
	a. Bluetooth					
	b. Zigbee					
	c. WiMAX					
	d. None of these					
25.	Zigbee make use of IEEE standard for radio communication.	1	4	1	1	1
	a. 802.15.1					
	b. 802.15.2					
	c. 802.15.3					
	d. 802.15.4					
26.	Bluetooth make use of IEEE standard for radio	1	4	1	1	1
	communication.					
	a. 802.15.1					
	b. 802.15.2					
	c. 802.15.3					
	d. 802.15.4					
27.	The Wi-Fi technology which utilizes multiple wireless signals and	1	4	1	1	1
	antennas instead of one is IEEE standard.					
	a. 802.11a					
	b. 802.11b					
	c. 802.11g					
	d. 802.11n					
28.	For shared media operation, Wi-Fi networks utilize	1	4	1	1	1
	technique.					
	a. Simplex					
	b. Half-duplex					
	c. Full-duplex					
	d. None of these					
29.	The unlicensed ISM (Industrial, Scientific, and Medical) band	1	4	1	1	2
	operates at frequency.					
	a. 950 Hz to 1090 Hz					
	b. 180 KHz to 290 KHz					
	c. 50 MHz to 150 MHz					
	d. 2.4 GHz to 2.485 GHz					
30.	The Wi-Fi technology that utilizes multiple wireless signals and	1	4	1	1	2
	antennas supports bandwidth.					
	a. 1 Mbps					
	b. 10 Mbps					
	c. 100 Mbps					
	d. 1000 Mbps					
		•		•		

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