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ENGINEERING COLLEGE
Jeppiaar Nagar, Rajiv Gandhi Salai – 600 119

Department of Electronics and Communication Engineering

Innovative Teaching Methods

Activity Title	Technical Quiz
Faculty Name/Department	Mrs. A. Sajitha /ECE
Mapped Course Name & Code	CBM341 BODY AREA NETWORK
Date	02/07/2024
Benefitted Students (Year / Sem / Dept)	III / VI /ECE
Topic	BAN and Healthcare
Description	Use of BAN in medical applications can be understand by conducting Quiz program to initiate effective way of learning for students about Body Area Network
Course Outcomes (CO)	CO1: Understand the concept of Body Area Network and its applications
Performance Indicator (PI)	1.4.1
Mail ID (for review)	asajithabe@gmail.com
Activity photo	



Topics / Questions:

1. What is the main purpose of a Body Area Network (BAN)?
 - a) To connect medical devices to a patient's body
 - b) To connect personal devices to a computer
 - c) To connect devices within a home network
 - d) To connect devices within a corporate network
2. Which type of wireless communication technology is commonly used in BANs?
 - a) Bluetooth
 - b) Wi-Fi
 - c) Zigbee
 - d) Cellular
3. What is the main benefit of using BANs in medical applications?
 - a) Real-time monitoring of vital signs
 - b) Increased security of medical data
 - c) Reduced cost of medical devices
 - d) Improved communication between medical devices
4. Which type of device is most commonly used as a BAN hub?
 - a) Smartphone
 - b) Wearable device
 - c) Laptop
 - d) Tablet
5. What is the main challenge in designing BANs for medical applications?
 - a) Limited power and battery life
 - b) Limited range and coverage
 - c) Limited security and data privacy
 - d) All of the above



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6. What is the main advantage of using BANs in fitness and wellness applications?
 - a) Real-time tracking of physical activity
 - b) Personalized health recommendations
 - c) Increased convenience and accessibility
 - d) All of the above
7. What is the main difference between BANs and traditional wireless networks?
 - a) BANs are designed for personal use, while traditional networks are designed for public use
 - b) BANs use a different wireless communication technology
 - c) BANs are designed to connect devices on or near the body, while traditional networks are designed to connect devices over a larger area
 - d) BANs have a higher data transfer rate than traditional networks
8. What is the main application of BANs in industrial settings?
 - a) Real-time monitoring of equipment and machinery
 - b) Improved communication between workers
 - c) Increased efficiency and productivity
 - d) All of the above
9. What is the main advantage of using BANs in military and security applications?
 - a) Real-time monitoring of soldiers' vital signs
 - b) Improved communication between soldiers
 - c) Increased situational awareness and intelligence
 - d) All of the above
10. What is the main challenge in deploying BANs in public spaces?
 - a) Interference with other wireless networks
 - b) Limited range and coverage
 - c) Limited security and data privacy
 - d) All of the above



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Answers:

1. (a) To connect medical devices to a patient's body
2. (a) Bluetooth
3. (a) Real-time monitoring of vital signs
4. (b) Wearable device
5. (d) All of the above
6. (d) All of the above
7. (c) BANs are designed to connect devices on or near the body, while traditional networks are designed to connect devices over a larger area
8. (d) All of the above
9. (d) All of the above
10. (d) All of the above



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Marks:

Group Name	Register Number	Topic	Total Marks (10)
A	310821106057	BAN and Healthcare	9
	310821106058		8
	310821106059		10
	310821106060		9
	310821106061		8
B	310821106062		9
	310821106063		9
	310821106064		9
	310821106065		8
	310821106066		9
C	310821106067		8
	310821106068		10
	310821106069		9
	310821106070		8
	310821106071		10
D	310821106072		9
	310821106073		8
	310821106074		9
	310821106075		8
	310821106076		9
E	310821106077		8
	310821106078		8
	310821106079		9
	310821106080		8
	310821106081		10

F	310821106082	BAN and Healthcare	8
	310821106083		9
	310821106084		8
	310821106085		8
	310821106086		9
G	310821106087		10
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	310821106101		8
J	310821106102		8
	310821106103		9
	310821106104		8
	310821106105		9
	310821106106		8
K	310821106107		8
	310821106108		9
	310821106302		9
	310821106701		9

Outcome:

Better understanding of what is meant by BAN and the role of BAN in medical applications.