GLS UNIVERSITY
FACULTY OF COMPUTER APPLICATIONS & INFORMATION TECHNOLOGY
SUBJECT: DCN
BCA SEM IV
Unit 5 Assignment

Q-1 Fill in the Blanks:

1. _____Connects two or more network devices using wireless distribution techniques.
2. _____Connects two or more wireless LANs spreading over a metropolitan area.
3. the highest data rates of WLAN networks provide are the range of _____ Mbps.
4. The highest data rates these networks provids WLAN are the range of _____ Mbps.
5. The initial investment required for _____ LAN hardware is higher than the cost of wired LAN hardware.
6. Wireless LANs use _____waves to communicate.
7. _____ Computing is ability to compute remotely while on the move, it possible for people to access information from anywhere and at anytime.
8. The System Bandwidth is higher in _____networks. (mobile/wired)
9. The Quality of Service is better in _____networks. (mobile/wired)
10. The Transmission medium for wired networks can be _____.

Q-3 True or False

1. Wired networks are better than mobile networks.
2. The data rate of MANETs is more than WSN.
3. Compared to MANETs, WSNs are smaller, more powerful, and more memory-constrained.
4. The protocols designed for WSN should support different kinds of sensor nodes and also be able to support variety of applications.
5. Possibility of node failure and change of topology of network is quite high in case of WSN.
6. The protocols designed for WSN should support different kinds of sensor nodes are called Homogeneity support.

7. Repeaters are also called regenerator.
8. Switches can be subject to distributed denial of service (DDoS) attacks
9. Bridge operates at the physical layer and data link layer of OSI layer.
10. Repeater regenerates a signal.

Q-4 Answer the following questions:

1. Write a note on Mobile computing
2. Give applications of WSN.
3. State difference between Wired networks and mobile networks.
4. Give characteristics of Mobile Computing.
5. What is WLAN? Explain in detail.
6. What is WSN? Draw architecture of it.
7. State Difference between WSN and MANET.
8. What are design issues in WSN?
9. Explain switch and router in detail.
10. What is hub? explain

Note: All the students have to attempt Q-1, Q-2, Q-3 complusory. Attemt Q-4 in following sequence:

Roll No.	Question No.
A001 to A020, B001 to B020, C001 to C020	1,5,3,9
A021 to A040, B021 to B040, C021 to C040	2,6,8,10
A041 to A060, B041 to B060, C041 to C060	3,1,7,9
A061 onwards, B061 onwards, C061 onwards	4,2,6,10