CS578: Internet of Things Dept. of CSE, IIT Guwahati

Quiz 1 Date: 12-09-2021 **Marks:** 10 **Total Time:** 20 min

Na	me: Roll No:
1.	Which technology is used to establish computer network over telephone line? Ans: DSL/ADSL
2.	What is Access Network? Ans: the network that physically connects an end system to the first router / edge router.
3.	What are the two mostly used architectures for FTTH based Internet access? Ans: Two competing optical-distribution network architectures that perform this splitting: active optical networks (AONs) and passive optical networks (PONs).
4.	Which layers in network protocol stack performs the main roles in circuit switching and packet switching? Ans: For circuit switching: PHY, For packet switching: NET.
5.	A physical object becomes smart object in IoT if it has few mandatory components. Which are they? Ans: sensors/actuators, computation unit, memory unit, power source, and network connectivity
6.	What is the primary role of adaptation layer in Open IoT protocol stack? Ans: Need to perform packet/frame size optimization due to constrained node and networks.
7.	What is the primary role of IoT Gateway? Ans: It serves as the connection point between the two different types of networks
8.	What are the mandatory functions of a sketch? Ans: Setup and Loop
9.	What is the role of pinMode() function? Ans: It configures the specified pin to behave either as input or as output
10	In asynchronous social communication, what does this asymphronous man?

10. In asynchronous serial communication, what does this asynchronous mean?

Ans: no clock signalling line to synchronize the transmitter and receiver. So, they transmitter and receiver might turn on at different time instant.