## National Forensic Sciences University Course N. Course N. and Digital Forensi School of Cyber Security and Digital Forensics Course Name: M.S. Security (Batch: 2021-23) Course Name: M.Sc. Cyber Security (Batch: 2021-23) M.Sc. Cyber Security (Batch: 2021-23) M.Sc. Cyber Security (2021-23) Subject Name: IoT Security & Forensics Date: 23-11-2022 Exam: Mid Semester Examination (NOV - 2022) [25 Marks] Q1. Answer the following questions in short. (Attempt any 5) 1) What is IoT system? Explain its different components. 2) Draw a neat diagram of IoT architecture and elaborate data processing layer. Explain node types and its behaviour in WSN. What are the main security and standardization in detail. What are the major components of MQTT protocol? Explain its working in detail. 6) Differentiate zigbee and z-wave protocols. [16 Marks] Q2. Answer the following questions in detail. (Attempt any 2) 1) Explain M2M in detail with its working and its comparison with IoT. 2) Write a note on Software Defined Network and its integration with IoT. Enlist the standard protocols used in IoT and describe 6LowPAN and Bluetooth in detail. [09 Marks] Q3. Answer the following question in brief. (Attempt any 9) 1) Give the name of sensor types according to the its data type. 2) Name the backend services used for IoT system. Which characteristic can be measured by ultrasonic sensor? de unomagnenic 4) What is drift of gathered data from sensor? How communication model is useful in IoT? What is source node in WSN? Senson At which layer of architecture, LLC is working? 324 -8) What is piconet? residing locally or across a network. 9) XMPP provides for the is used as multilevel wildcard for subscription at more than one level of hierarchy in MQTT communication.