R18

[8+7]

Code No: 156DR

Explain the following:

b) Cloud Service Models.

8.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year II Semester Examinations, August - 2022 FUNDAMENTALS OF INTERNET OF THINGS

(Common to EEE, CSE, IT)

Time: 3 Hours Max.Marks:75

Answer any five questions All questions carry equal marks

What are the main challenges in Internet of Things (IoT)? 1.a) What kind of information do Internet of Things (IoT) objects communicate? b) [8+7]How might wireless communications have an effect on the development and 2.a) implementation of the Internet of Things (IoT)? Explain. b) Explain the protocol used to link the devices in IoT. [8+7]How data collection and analysis approaches differ in M2M and IOT? 3.a) Define ETSI M2M domains and High-level capabilities. b) [8+7]Explain about interfacing an LED and switch with Arduino. 4.a) b) What is the difference between Sensors and Actuators? Explain with an example. [8+7] 5.a) Discuss in detail the use of embedded computing in the design of IoT Systems. b) Explain in detail the Raspherry Pi interfaces. [7+8]What is the use of SR and I2C interfaces on Raspberry pi? 6.a) b) Describe how SDN can be used at various levels of IOT. [8+7]Discuss the role of Data Analytics in Internet of Things (IoT). 7.aExplain about various components and business model patterns in the Internet of b) Things. [10+5]

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a) Cloud Platform for IoT/M2M Applications/Services