Total No	o. of Questions :6] SEAT No. : [Total No. of Pages :2] Oct./BE/ Insem 550
B.E. (E&TC)	
INTERNET OF THINGS	
(2015 Pattern) (Semester - I) (Elective - I(D))	
Time: 1	
Instructi 1)	ons to the candidates: Answer Q.1 or Q.2, Q3 or Q.4, Q.5 or Q.6.
2)	Near diagrams must be drawn wherever necessary.
3)	Figures to the right side indicate full marks.
<i>Q1</i>) a)	What is Internet of Things? List any four applications of IoT. [4]
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b)	Draw the functional block diagram of internet of Things and explain in detail any one block. [6]
<i>O2</i>) a)	Draw the M2M system architecture and write about the M2M area network.
<i>Q2)</i> u)	[6]
b)	Write in brief about role of cloud computing in IoT system design. [4]
Q3) a)	What is RFID? What are the components of RFID system? [4]
b)	What are various types of actuators? Explain any one actuator [6]
	OR CONTRACTOR OF THE PROPERTY
Q4) a)	A node in Wireless Sensor Network contains number of capabilities such as communication, computing, sensing etc. What are the design aspects of communication capability of the node? [6]
b)	If an IoT system for street light control is to be designed. Which sensor(s) will you use and why? [4]

P.T.O.

Q5) a) Justify how Z-wave protocol is suitable for design of home automation application. [4] What are IEEE 802.15.4 Reduced Function and Full Function Devices?[6] b) What is NFC and what are the types of NFC devices? **Q6)** a) [4] What is MODBUS Explain MODBUS message framing and transmission b) **[6]** modes R9.248.21.28 Colors of the col

BE/Insem. - 550