Total No. of Questions : 6]	SEAT No. :
P 5833	[Total No. of Pages : 2

		DE/Instructi-552
		B.E. (E&TC)
		INTERNET OF THINGS
		(2015 Pattern) (Elective - I) (Semester - I)
Time	e:1 E	Hour] [Max. Marks :30
Insti	ructio	ons to the candidates:
	<i>1)</i>	Neat diagrams must be drawn wherever necessary.
	2)	Figures to the right side indicate full marks.
Q 1)	a)	The scope of IoT is not just connecting things. Then what do you think can be included in the scope of IoT? [4]
	b)	Draw the generic block diagram of IoT device and explain the necessity of any two blocks in it. [6] OR
Q2)	a)	IoT is enabled by several technologies. What according to you is most important enabling technology of IoT? Justify your answer. [6]
	b)	How are the objects in IoT classified? List out two objects in each category. [4]
Q 3)	a)	What is difference between sensor and transducer? Thermocouple is a sensor or transducer? Justify. [4]
	b)	Explain principle of RFID. [6]
		OR OF OF
Q4)	a)	While designing an IoT system, you will be required to select a suitable sensor. List and explain in brief any six selection criteria. [6]
	1.)	What is a 110 in 1 and 1 11 in Windland County of the 2 Early 1 2 11

What is a "Sink node" in Wireless Sensor network? Explain with suitable b) example how data flow is controlled by the sink in WSN. [4]

P.T.O.

- **Q5)** a) List out some important features of IEEE 802.15.4 standard. [4]
 - b) What is BLE? How it will be useful in IoT system design? [6]

OR

Q6) a) List out and explain the features of three types of Zigbee Nodes. [4]

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b) Highway Addressable Remote Transducer (HART) Protocol is useful for setting up IoT Communication. Describe in brief any three features of HART Protocol. [6]