Total No. of Questions : 6]	SEAT No. :
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BE/InSem/Oct.-552

		B.E. (E&TC)
		INTERNET OF THINGS
		(2015 Pattern) (Elective - I) (Semester - I)
Time	e:1 F	Hour] [Max. Marks :30
Insti	ructio	ons to the candidates:
	1)	Neat diagrams must be drawn wherever necessary.
	2)	Figures to the right side indicate full marks.
Q1)	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]
		Sp.
Q3)	a)	What is difference between sensor and transducer? Thermocouple is a sensor or transducer? Justify. [4]
	b)	Explain principle of RFID. [6]
		OR 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]
	b)	What is a "Sink node" in Wireless Sensor network? Explain with suitable 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]
 - b) Highway Addressable Remote Transducer (HART) Protocol is useful for setting up IoT Communication. Describe in brief any three features of HART Protocol. [6]

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