	of Questions : 4]	SEAT No.:	
PC-319		[Total	No. of Pages: 2
	[6361] - 191		
B. E	E. (Artificial Intelligence and Da	ata Science) (In Sem.)
	INDUSTRIAL INTERNET	OF THINGS	5
(20.	19 Pattern) (Semester - VII) (417	7523B) (Election	ive - III)
Time : 1 1	Hour]	[M	lax. Marks: 30
Instruction	ons to the candidates:		
1)	Solve questions Q.1 or Q.2, Q.3 or Q.4.	1.5) *
2)	Neat diagrams must be drawn wherever n	necessary.	
3)	Figures to the right indicate full marks.		
<i>4</i>)	Assume suitable data if necessary.	1 8	
		.52	
Q1) a)	Describe how the HoT evolved from the	e Internet of Thin	gs (IoT). [5]
b)	Define the Industrial Internet of Things	(HoT). Compare a	and contrast the
	similarities and differences between IoT	and IIoT	[5]
c)	Explain how the HoT is helping to impr	ove efficiency, pr	oductivity and
	safety in industry.		[5]
	OR		15 Stall
Q2) a)	Explain how the HoT is helping to pro	event unplanned	downtime and
	improve asset reliability.	· O)	[5]
			×
b)	Identify specific applications of HoT in	industry	[5]
		(3)	
(c)	List the benefits of using IIoT in industr		[5]
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			<i>P.T.O.</i>

Q3)	a)	Identify the different types of sensors used in industrial processes. [5]
	b)	Compare and contrast the different types of IIoT sensor networks. [5]
	c)	Recommend an IIoT low power WAN technology for a specific industrial
		application. [5]
		OR OR
Q4)	a)	Identify the different types of actuators used in industrial processes. [5]
	b)	Explain the advantages and disadvantages of each type of IIoT sensor
		network. [5]
	2)	A column have an access systemation and data was itian an area data action
	c)	Analyze how process automation and data acquisition are used together to improve the efficiency and productivity of industrial processes. [5]
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