Time:	3 Hour		Max. Marks: 80
Inctr	uctions		
1)		pt any Four question out of six questions.	0,0
2)		estion carries equal marks.	
3)		ate your answers with neat sketches wherever necessary,	400
4)		es to the right indicate full marks.	City,
5)	_	ne suitable additional data, if necessary and clearly state it.	A A
<b>6</b> )		b-questions of the same question should be grouped together.	
- /			
0.4			A
<b>Q.1</b>		That is IoT? Compare with suitable criterion between C	Operational 10
		echnology (OT) and Information Technology (IT).	T
	<b>(b)</b> V	Vith suitable examples, explain the types of sensors used in Io	T systems. 10
$0.2^{\circ}$	(a) E	xplain the Smart Things; architectural classification consider	ng Layer 1 10
2.2		hings-Sensors and Actuators Layer.	ing Edych T
40,	41	live the Categories of IoT application protocols and their	r transport 10
Dr.		nethods. Describe the factors should be considered when s	
,7	4 ' \/	ansport layer for an IoT application layer protocol.	100 100 100 100 100 100 100 100 100 100
. Ć	SIX		
Q.3		viscuss the application of IoT in Cities.	10
43		ompare with suitable factors Microsoft Azure IoT and Google	Cloud IoT 10
6	u	sed as IoT Software platforms.	
<i>y</i>	4		1400
Q.4		tive the function of each layer of a seven-layer IoT architectura	Treference 10
X		nodel published by IoTWF architectural committee.	10
1	<b>(b)</b> E	xplain the Enabling IoT Technologies.	10
20.5	(a) \( \bar{F} \)	xplain Gateways and Backhaul Sublayer considering	Layer 2: <b>10</b>
, Q.5	1 1 1 1 1 1	ommunications Network Layer in IoT.	Layer 2. 10
		tive the key components of a SCADA system. Describe CoA	P message 10
~		elds.	
40,			
Q.6	(a) D	escribe the application of IoT in Environment.	10
<i>y</i>		ompare with suitable factors Particle Photon with ESP32 us	ed for IoT 10
	a <sub>l</sub>	oplication development.	
5			
40			
3	100		