	(2 ½ Hours) [Total Marks: 75]
1	<ul> <li>N.B. 1) All questions are compulsory.</li> <li>2) Figures to the right indicate marks.</li> <li>3) Illustrations, in-depth answers and diagrams will be appreciated.</li> <li>4) Mixing of sub-questions is not allowed.</li> </ul>
Q. 1 (a)	Attempt All  1. The core element is operated by  a) PaaS  b) IoT service Provider c)SaaS  d) IaaS  2. Who will use their own IoT business models?
	a) PaaS b) SaaS c) IaaS d) Service provider
	3. Thisprotocol allows user at one site to establish connection to another site and pass keystroke from local to remote host.  a) Telnet b) FTP c) IP d) HTTP
	4. Adheres to approach for managing resources and support mapping to HTTP.  a) RETful b) IoT c) Restful d) RESTful
	5. Touch screen of mobile phone usesSensor. a) AFR Sensor b) Pellistor
	c) Viscometer d) Tactile sensors  6. ITS stands for a) Internet Travel Services b) Internet Transportation Security
\$ 7 T	c) Intelligent Transportation Security d) Intelligent Transportation Services

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	7. Global Sensor Network is built for	(in)
	a) Reducing cost and time for development	
	b) Reducing cost and increasing time for development	
	c) Increasing cost and increasing time for development	A.
	d) Increasing cost and decreasing time for development	180
		O T
	8. APU (Accelerated Processing Unit) is also called	\$ <sup>2</sup>
	a) Fission b) Fusion	
	c) CPU c) GPU	
	9. FPGA contain an array oflogic blocks.	
	a) nonprogrammable b) programmable	, (~
	c) Static d) Dynamic	Car.
	10. Data in network layer is transferred in the form of	9
	a) Layers	c S
	b) Packets	
	c) Bytes	4
	d)Bits	111
. 3		
(b)	Fill in the blanks	
(b)	(LPWAN, Bluetooth, FPGA, CSMA/CS, MQT,)	
200	1is the protocol used in GSN.	(E) (I)
	2is a data link layer technology.	(5M)
30	3. multiple access technique called is used by IEEE 802.11	
	standard for wireless LAIN	
J. J.	4. Sigfox is also calledtechnology.      5. Digital signal processing, radio astronomy, computer vision, and	
Z. Z	5. Digital signal processing, radio astronomy, computer vision, and speech recognitionall are applications of	
360	special decognition are applications of	
Q. 2	Attempt the following (Any THREE)	(15M)
(a)	What are the different types of reference models? Explain each one in brief.	(10111)
(b)	Explain with a block diagram the IOT Functional model.	
(c)	How network domain helps in establishing the connection between the	
5	nodes in an IoT application?	
(d)	Discuss different M2M technologies?	
🦫 (e) 💰	Discuss features of ETSI M2M high level architecture with diagram.	
(f)	Discuss the following in brief	
C.C.	1) Sensors 2) Tags	
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Q.		
(a)		(15M
(b)	Explain the working and a decision of the second of the se	The same
(c)	Explain a short note on 6LoWPAN with its functions and characteristics.  How ICMP works? Discuss the advantages with	
(d)	How ICMP works? Discuss the advantages with an example.  State the 6LoWPAN functions and characteristics.	
(e)	State the 6LoWPAN function of the advantages with an example.	25
<b>(f)</b>	State the 6LoWPAN functions and characteristics.  Explain in short RPL and CORPY are all and corps.	
	Explain in short RPL and CORPL. What is the difference between these protocols?	2
Q. 4	Attempt the following (Any THREE)	
(a)	Differentiate between TCP and MPTCP  Explain the work:	(15)
(b)	Explain the working and MPTCP	
	Explain the working of the Datagram Congestion Control Protocol. & Explain ECN with an example.	, :
(c)	Explain basic operation	
(d)	Explain basic operations available in XMPP.  How HTTP help us in	2
(e)	-101D US III ONE dov. 1 - 1 100	
(f)	a profit field on without	
( )	How a subscriber subscribe to MQTT topic	/
Q. 5		10
(a)	E- TOTOMING IV was LILLIAN	(15)
· (p)	Discuss IO1 Service Functional Cross	(10)
Charles .	110W does the 11U-T loT reference model weeks	
् <sub>ट</sub> (c)	vitat is the application of one's RPI protocole?	
(d)	Discuss the task performed by the network love.	
(e) (?)	State and explain important features of SCTP	
(f)	what is a Service layer? Who accesses the service layer?	
∑³(g)	Discuss in brief working of OMA.	
(h)	What is Mainstreaming?	
1.6		
S. S.	**************************************	
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and the same		
S.	Discuss in brief working of OMA. What is Mainstreaming?	

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