	(2 ½ Hours) [Total Marks: 75]	
N,	 B. 1) All questions are compulsory. 2) Figures to the right indicate marks. 3) Illustrations, in-depth answers and diagrams will be appreciated. 4) Mixing of sub-questions is not allowed. 	150
Q. 1	Attempt All	
(a)	1. The core element is a state of the state	
, ,	a) PaaS b) IoT service Provider	I)
	c)SaaS d) IaaS	
	2. Who will use their own IoT business models?	
	a) PaaS	
	b) SaaS	
	b) SaaS c) IaaS d) Service provider	
	d) Service provider	
D.	3. Thisprotocol allows user at one site to establish connection to	
12/2	another site and pass keystroke from local to remote host.	
- 1	a) Telnet	
Car	b) FTP ST ST ST ST ST ST	
يا	OP ST ST ST ST ST	
	d) HTTP	
8	4. Adheres to approach for managing resources and support	
J	mapping to HTTP.	
3	a) RETful b) IoT	
10 PM	c) Restful d) RESTful	
7 T		
. 5	7. Touch screen of mobile phone usesSensor.	
	a) AFR Sensor b) Pellistor	
-1	r) Viscometer d) Tactile sensors	
12		
6	i, ITS stands for	
) Internet Travel Services	
. 1) Internet Transportation Security	
) Intelligent Transportation Security	
d	l) Intelligent Transportation Services	

Page 1 of 3

	7. Global Sensor Network is built for	- '
	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	Ş5°
	8. APU (Accelerated Processing Unit) is also called	
	a) Fission b) Fusion	-
	c) CPU c) GPU &	
	9. FPGA contain an array oflogic blocks.	
	a) nonprogrammable b) programmable	,~
	c) Static d) Dynamic	O.
	10. Data in network layer is transferred in the form of	
	a) Layers	-
	b) Packets	
	c) Bytes	
	d)Bits	
	(b) Fill in the blanks	
Ş.	(LPWAN, Bluetooth, FPGA, CSMA/CS, MQT,)	
10	1 is the protocol used in CSN	
3	2 is a data link layer technology. (5N	1)
	3. multiple access technique called is used by IEEE 802.11	
~	standard for wireless LAN	
6	4. Sigfox is also calledtechnology.	
3.	5. Digital signal processing, radio astronomy, computer vision, and	
•	speech recognition all are applications of	
	Q. 2 Attempt the following (Any THREE)	
2	(a) What are the different types of reference models? Explain each one in brief.	M)
CV.	(b) Explain with a block diagram the IOT Functional model.	
,	(c) How network domain helps in establishing the connection between the	
	nodes in an IoT application?	
S	(d) Discuss different M2M technologies?	
30	(e) Discuss features of ETSI M2M high level architecture with diagram.	
	(f) Discuss the following in brief	
	1) Sensors 2) Tags	
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Q. 3		4
(a)	ממיטוני ווטווי מה ארכים ה	(15M
(b)	Explain the working and a 1	100
(c)	Explain the working and advantages of IEEE 802.11 Explain a short note on 61 own and advantages of IEEE 802.11	
(d)	How ICMP works? Discount With its functions and characteristics.	
(e)	How ICMP works? Discuss the advantages with an example. State the 6LoWPAN functions and characteristics.	.27
(f)	State the 6LoWPAN functions and characteristics. Explain in short RPL and CORDS	
	Explain in short RPL and CORPL. What is the difference between these protocols?	
Q. 4	Attempt the follows ()	
(a)	Attempt the following (Any THREE)	(15)
(b)	Differentiate between TCP and MPTCP	(20)
` '	Explain the working of the Datagram Congestion Control Protocol. & explain ECN with an example	_
(c)	explain ECN with an example.	
(d)	Explain basic operations available in XMPP. How HTTP help us in a second of the secon	
(e)		
(f)	TOTAL HOLE ON A MON	
(1)	How a subscriber subscribe to MQTT topic	,)
Q. 5 ू		10
·	Attempt the following (Any FIVE)	(15)
(a) (h)	Discuss IO1 Service Functional Cross	(13)
(p)	110W does the 11U-T loT reference model with 12	
^{ुर} (c)	vitat is the application of one's RPI protocol-2	
(d)	Discuss the task performed by the network layor	
(0)	State and explain important features of SCTP	
(f)	vynat is a Service layer? Who accesses the sorvice layer?	
,ु`(g)	Discuss in brief working of OMA.	
ी (h) 🣑	What is Mainstreaming?	
175	**************************************	
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Jane S.		
15		
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E.		
3		
- Contract	Discuss in brief working of OMA. What is Mainstreaming?	