CS/B.TECH(N)/EVEN/SEM-8/8339/2022-2023/I130

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MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL Paper Code : OE-EC803A Internet of Things(IoT)

UPID : 008339

Гіте	Allotted : 3 Hours	Full Marks :70
	The Figures in the margin indicate full marks.	
	Candidate are required to give their answers in their own words as far as practicable	
	Group-A (Very Short Answer Type Question)	
L. Ans	wer any ten of the following :	[1 x 10 = 10]
	^(I) What is the component of an IoT system that executes a program?	
	(II) WOT reduces the of HTTP.	
	(III) What do API systems enable?	
	(IV) What is the last step of reliable data transfer?	
	(V) Service is termed as in SOA.	
	(VI) What is the format of IP address?	
	(VII) What is the full form of DHCP in IoT communication protocols?	
	(VIII) The address of the original IEEE 802 MAC comes from	
	(IX) LTE stands for	
	(X) What role of the cloud in smart grid architecture is?	
	(XI) The standard length of the MAC address is	
	(XII) Arduino IDE is written in which programming language?	
	Group-B (Short Answer Type Question)	
	Answer any three of the following :	[5 x 3 = 15]
2.	Discuss static and dynamic IP address assignment.	[5]
3.	Explain the use of TCP and UDP ports. Give examples.	[5]
4.	Discuss, what are the benefits of using IPV6 in IOT?	[5]
5.	Describe use of IP, TCP and UDP protocols.	[5]
6.	What do you mean by BLE (Bluetooth Low Energy)?	[5]
	Group-C (Long Answer Type Question)	
	Answer any three of the following :	[15 x 3 = 45]
7.	Explain various trend in Information and communication technologies and its impact on IoT.	[15]
8.	Explain the functional layers and capabilities of an IoT solution with a neat diagram.	[15]
9.	Explain an information driven value chain for IoT with a neat diagram.	[15]
10.	Explain the generic M2M System Solution with a neat diagram.	[15]
11.	Explain ETSI M2M service capabilities in detail with a neat diagram.	[15]

*** END OF PAPER ***