

G. S. Mandal's

Maharashtra Institute of Technology, Aurangabad

(An Autonomous Institute)

END SEMESTER EXAMINATION

First Year M.Tech(ETC) -April/May 2022

Course Code : MTE121

Course Name : PE I – Internet of Things

Duration : 2 Hrs

Max. Marks : 50

Date : 13/04/2022

Instructions :

- i) All questions are compulsory
 ii) Assume suitable data wherever necessary and clearly state it
 iii) Figures to the right indicate full marks

Q. 1	Solve/Answer any five (Marks 10)			
	Questions	Marks	CO	BL
a)	What is Hadoop?	2	4	2
b)	What is LoRAWAN?	2	1	2
c)	What is IIOT?	2	2	2
d)	List applications of ESP 8266.	2	3	2
e)	Enlist technologies used in Industry 4.0	2	2	2
f)	List layers of fog architecture.	2	2	2
Q.2	Illustrate use of IoT system for agricultural sector.	8	2	2
Q.3	Define cloud computing. Explain types of cloud services	8	4	4
Q.4	List advantages of IoT. Describe components used in IoT.	8	1	4
Q.5	Describe MQTT in detail.	8	3	3
	OR			
Q.5	List Wi-Fi key features of ESP32. Draw functional block diagram of ESP32 and explain it in detail.	8	3	3
Q.6	Elaborate IoT communication patterns with the help of appropriate diagram.	8	1	3
	OR			
Q.6	What is big data and big data analytics? Elaborate four V's in big data.	8	4	3

