

**K. J. Somaiya Institute of Technology, Sion, Mumbai-22**  
(Autonomous College Affiliated to University of Mumbai)

May-June 2023		
(B.Tech.) Program: EXTC SchemeII		
Regular Examination: TY Semester: VI		
Course Code: EXDLC6052 and Course Name:IoT and Industry 4.0		
Date of Exam: 25-05-2024	Duration: 02.5 Hours	Max. Marks: 60

Instructions:				
(1)All questions are compulsory.				
(2)Draw neat diagrams wherever applicable.				
(3)Assume suitable data, if necessary.				
		Max. Marks	CO	BT level
Q 1	Solve any six questions out of eight:	12		
i)	List sources of IoT.	2	CO1	U
ii)	Explain verbs used in RESTful HTTP environment.	2	CO2	U
iii)	Differentiate between Hadoop 1.0 and Hadoop 2.0.	2	CO3	U
iv)	What are the applications of next generation sensors?	2	CO4	U
v)	List Industrial IoT applications.	2	CO5	U
vi)	Give the importance of wearable technologies in IoT.	2	CO6	U
vii)	Explain IoT enabling technologies.	2	CO2	U
viii)	List advantages of Apache Storm.	2	CO3	U
Q.2	Solve any four questions out of six.	16		
i)	Discuss the logical design of IoT in detail.	4	CO1	U
ii)	Describe MQTT protocol in detail with respect to IoT.	4	CO2	U



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iii)	Explain components of Hadoop Cluster with diagram.	4	CO3	U
iv)	Describe the concept of smart sensor for IoT with relevant diagram. revolution	4	CO4	U
v)	List Various cybersecurity threats with respect to IoT.	4	CO5	U
vi)	Discuss IoTs Value Creation for Smart Agriculture.	4	CO6	U
Q.3	Solve any two questions out of three..	16		
i)	Explain ITU-T Reference Model with diagram.	8	CO1	U
ii)	ExplainVirtualRealityforindustry4.0withblockdiagram	8	CO4	U
iii)	Discusstherole of industrial IoT in power plant application with relevant diagrams.	8	CO5	U
Q.4	Solve any two questions out of three.	16		
i)	Discuss an importance of LPWAN in IoT.	8	CO2	U
ii)	Explain YARN in detail with diagram.	8	CO3	U
iii)	Describe the four market drivers which have amplified theintegrationofIoTswithincurrenteconomicsystems.	8	CO6	U

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