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

End Semester Exam

April - May 2022 Program: B.Tech Examination: TY Semester: VI

Course Code:1UEXDLC6052 and Course Name: IoT and Industry 4.0

Duration: 03 Hours Max. Marks: 60

Instructions:

(1)All questions are compulsory.

(2)Draw neat diagrams wherever applicable.

(3) Assume suitable data, if necessary

	The Period of the server of th	Max. Marks	СО	BT level
Q1	Solve any six questions out of eight:	12		
i)	Discuss the characteristics of IoT.	2	CO1	U
ii)	List protocols used in Link Layer	2	CO2	U
iii)	Discuss advantages of Hadoop 2.0.	2	CO2	U
iv)	Explain Batch data analysis process for IoT.	2	CO3	U
v)	State applications of Industry 4.0.	2	CO4	U
vi)	Describe Next Generation Sensors for Industry 4.0	2	CO4	U
vii)	List Industrial IoT- Applications in Healthcare domain.	2	CO5	U
viii)	Discuss IoTs Value Creation for smart city concept.	2	CO6	U
Q.2	Solve any four questions out of six.	16		
i)	Explain Physical design of IoT.	4	CO1	U
ii)	Describe the protocols used in the network/Internet layer.	4	CO2	U
iii)	Compare Rest and Restful environment.	4	CO3	U
iv)	Classify Apache Oozie and Apache Spark with respect to their architecture, working and application point of view.	4	CO4	An
v)	List Industrial IoT- Applications in Power Plants domain.	4	CO5	U

vi)	Explain an important for businesses of today and future with respect to Industry 4.0.	4	CO6	U
Q.3	Solve any two questions out of three.	16		
i)	Explain IoT Design Methodology with flow diagram.	8	CO1	Ų
ii)	Define the Conceptual framework for Industry 4.0	8	CO4	U
iii)	Discuss the importance of Artificial Intelligence in IIoT.	8	CO5	U
Q.4	Solve any two questions out of three.	16	Tip I	
i)	Describe the protocols used in the application.	8	CO2	U
ii)	Describe Apache Hadoop architecture with diagram.	8	CO3	U
iii)	Describe the four market drivers which have amplified the integration of IoTs within current economic systems.	8	CO6	U

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