

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

~~2023~~ **2024**
~~May-June 2023/ Nov - Dec 20~~
 (B.Tech / M.Tech.) Program: MTech Scheme I/II/IIB/III: II
 Regular/Supplementary Examination: FY/SY/TY/LY Semester: II
 Course Code: PCEDLC2042 and Course Name: IoT and Data Analytics
 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)	Explain advantages and Disadvantages of IoT.		CO1	
ii)	Explain IPV6.		CO2	
iii)	What are the challenges in IoT data analytics application.		CO3	
iv)	What is the recent research in IoT data Analytics for Smart homes.		CO3	
v)	Explain the concept of Disease Prediction.		CO5	
vi)	What is meant by Smart Healthcare in IoT?		CO6	
vii)	What is IoT Data Analytics?		CO1	
viii)	How can IoT benefits for Air Pollution prediction?		CO4	
Q.2	Solve any four questions out of six.	16		
i)	Explain the physical design of IoT.		CO1	
ii)	Discuss various applications of IoT.		CO2	
iii)	Discuss on Smart Health.		CO6	
iv)	Discuss Smart City application in IoT.		CO4	
v)	Explain need of IoT in Crop Yield Prediction.		CO5	
vi)	Explain Security and Surveillance in IoT.		CO3	

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Q.3	Solve any two questions out of three.	16		
i)	Define various levels of IoT systems and Explain Level1 and Level 2 with suitable example.		CO1	
ii)	Discuss IoT for Smart Traffic management.		CO4	
iii)	Explain recent research in IoT data analytics for Smart Travelling.		CO5	
Q.4	Solve any two questions out of three.	16		
i)	Note on : IoT Protocol		Co2	
ii)	Implement IoT technology in Smart Homes.		CO3	
iii)	Explain how the IoT technology is impacting in Healthcare Sector.		CO6	
