

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

Nov – Dec 2024		
(B. Tech) Program: Information Technology Scheme II		
Regular Examination: LY Semester: VII		
Course Code:ITC702	Course Name: Internet of Everything	
Date of Exam: 26/11/24	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.				
Q. No.	Question	Max. Marks	CO	BT level
Q 1	Solve any two questions out of three: (05 marks each)	10		
a)	Describe IoT reference architecture		CO 1	2
b)	Describe and analyze the use of Bluetooth low energy for short range Applications with classic Bluetooth.		CO2	4
c)	Describe HTTP and WebSockets and its uses in IoT.		CO3	3
Q 2	Solve any two questions out of three: (05 marks each)	10		
a)	Describe the Strategies to organize data for IoT analytics		CO4	2
b)	Describe the attributes of IoB for Customer services.		CO5	2
c)	Describe attacks on Data perception phase & Storage Phase.		CO6	2
Q.3	Solve any two questions out of three. (10 marks each)	20		
a)	Describe the IoT conceptual Model in detail & Draw the overall model for IoT concepts.		CO1	2
b)	Describe the RFID and Compare it with NFC.		CO2	4
c)	Describe Constrained application protocol(COAP) & compare it with Streaming Text Oriented Messaging Protocol(STOMP).		CO3	2
Q.4	Solve any two questions out of three. (10 marks each)	20		
a)	Describe the four types of Data Visualization and Sketch at least one example of each type.		CO4	2
b)	Evaluate and Design Smart City and Justify the use of sensors & Protocols		CO5	5
c)	Describe four attacks on phases in detail and list the threats on VANET.		CO6	2
