

Nov – Dec 2024

B. Tech Program Scheme:II-B

Regular/ Examination: TY Semester: V

Course Code: ITC504 and Course Name: Internet of Things

Date of Exam: 29/11/2024

Duration: 02.5 Hours

Max. Marks: 60

Information Technology

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)	Explain the different Design , Reliability and Deployment challenges in IoT.		CO1	U
b)	Emphasize and Draw the connection diagram and provide the code for getting the level of water using a ROBODO SEN18 using Arduino.		CO2	U
c)	Draw and explain the Architecture of Arduino.		CO3	U
Q 2	Solve any two questions out of three: (05 marks each)	10		
a)	Explain the Raspberry pi 3 model B microcontroller board.		CO4	U
b)	Identify and summarize the steps for an IoT Controlled LED with Blynk App and Raspberry Pi.		CO5	Ap
c)	Concisely explain the “ key concept of WAMP”.		CO6	U
Q.3	Solve any two questions out of three. (10 marks each)	20		
a)	Explain IPV6 for IoT.		CO1	
b)	Describe the Airport's IoT system Architecture.		CO2	
c)	Apply technique to write the temperature and humidity data to the ThingSpeak cloud service and explain in detail.		CO3	
Q.4	Solve any two questions out of three. (10 marks each)	20		

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(Autonomous College Affiliated to University of Mumbai)

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a)	Illustrate the connection diagram for servo motor control using Raspberry Pi and Blynk App also provide the script.	CO4	Ap
b)	Implement briefly the procedure for Installing an Operating System using Raspberry Pi.	CO5	AP
c)	What is WAMP? Explain the key concepts of WAMP. Mention the commands for installing AutoBahn.	CO6	U
