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(no subject)

1 message

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To: misafwanp@gmail.com

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IoT-IA-III-2...

**BMS COLLEGE OF ENGINEERING, BANGALORE-19**

(Autonomous Institute, Affiliated to VTU)

Department Name: CSE

**THIRD INTERNALS**

Course Code: 20CS5PEIOT

Course Title: Internet Of Things

Semester: 5<sup>th</sup> (A,B,C,D)

Max Marks: 40

DATE: 19/01/2022

Faculty Handling the Course

Antara Roy Choudhury

**Instructions:** *Internal choice is provided in Part C.***PART-A****Total 5 Marks (No choice)\***

No.	Question	Marks
1.	Describe the WAMP protocol interactions between peers with a diagram.	05

**PART-B****Total 15 Marks (No Choice, each question should be maximum of 5 marks)\***

No.	Question	Marks
2a.	Analyse the role of soft sensor manager and control manager in IoTivity framework.	05
2b.	Analyze and discuss any 5 parameters to be considered while selecting sensors for a weather monitoring system.	05
2c.	Analyze how constrained devices are supported in IoTivity software stack.	05

**PART-C**

**Total 20 marks (Choice need to be provided. Each question should be maximum of 10 marks. )**

No.	Question	Marks
3a.	Write the steps to Query a resource state in the IoTivity framework with a suitable sequence diagram.	10
OR		
3b.	Write the steps to Set resource state in the IoTivity framework with a suitable sequence diagram.	10
4a.	Write a program for launching an RDS service.	10
OR		
4b.	Write a program to create and write to Amazon SQS queue.	10

Faculty Handling the Course

Antara Roy Choudhury

**Instructions:** *Internal choice is provided in Part C.*

**PART-A****Total 5 Marks (No choice)\***

No.	Question	Marks
1a.	Describe the features of IoTivity framework.	05

**PART-B****Total 15 Marks (No Choice, each question should be maximum of 5 marks)\***

No.	Question	Marks
2a.	Analyse the role of soft sensor manager and things manager in IoTivity framework.	05
2b.	Analyze and discuss any 5 parameters to be considered while selecting sensors for a health monitoring system.	05
2c.	Analyze how Amazon s3 can be used to store data in the cloud.	05

**PART- C****Total 20 marks (Choice need to be provided. Each question should be maximum of 10 marks. )**

No.	Question	Marks
3a.	Write the steps to Set a resource state in the IoTivity framework with a suitable sequence diagram.	10
<b>OR</b>		
3b.	Write the steps to Query resource state in the IoTivity framework with a suitable sequence diagram.	10
4a.	Write a program for launching and stopping an EC2 instance in AWS (Amazon Web Service).	10
<b>OR</b>		
4b.	Write a program to implement WAMP Publisher and WAMP Subscriber using AutoBahn framework.	10

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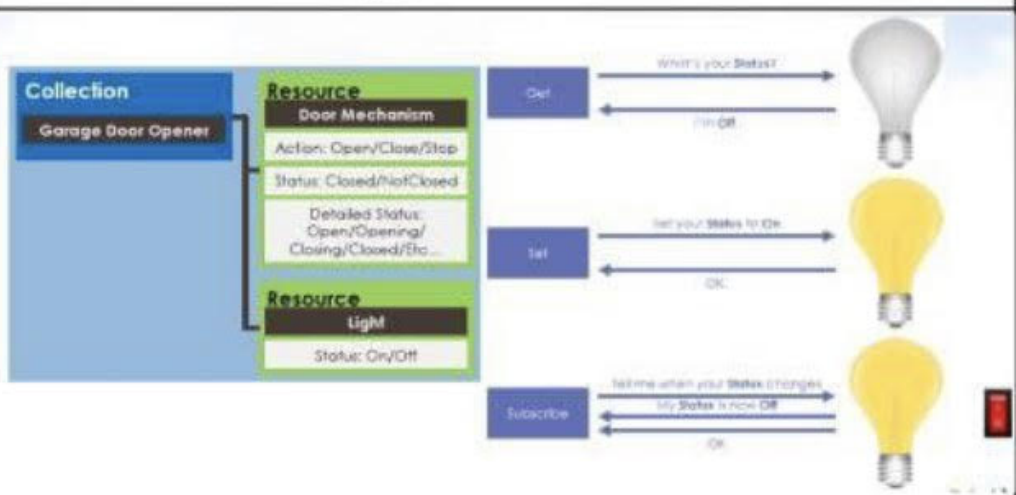
Faculty Handling the Course

Antara Roy Choudhury

**Instructions:** Internal choice is provided in Part C.**PART-A****Total 5 Marks (No choice)\***

No.	Question	Marks
1a.	Describe the key concepts of WAMP.	05

**PART-B****Total 15 Marks (No Choice, each question should be maximum of 5 marks)\***

No.	Question	Marks
2a.	Analyse the role of control manager and protocol plug-in manager in IoTivity framework.	05
2b.	Analyze and discuss any 5 parameters to be considered while selecting sensors for an aircraft condition monitoring system.	05
2c.	 <p>Analyze the diagram with respect to IoTivity.</p>	05

**PART- C****Total 20 marks (Choice need to be provided. Each question should be maximum of 10 marks. )**

No.	Question	Marks
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3a.	Write the steps to monitor a resource state in the IoTivity framework with a suitable sequence diagram.	10
<b>OR</b>		
3b.	Write the steps to Query resource state in the IoTivity framework with a suitable sequence diagram.	10
4a.	Write a program for creating an Autoscaling group.	10
<b>OR</b>		
4b.	Write a program for creating MySQL tables, writing and reading from the table using Amazon RDS.	10