Semester: 5th

Subject Name:- IoT& Code:-IT-3007 Branch (s): - CS/IT/CSSE/CSCE



AUTUMN MID SEMESTER EXAMINATION-2022

School of Computer Engineering
Kalinga Institute of Industrial Technology, Deemed to be University
Subject Name: Internet of Things
[Subject Code]: IT3007

Time: 1 1/2 Hours Full Mark: 20

Answer any four Questions including Q.No.1 which is Compulsory.

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable and all parts of a question should be answered at one place only.

1. Answer all the questions.	[1 x 5]
I) Which communication model can perform bidirectional, fully duplex mode of commun	nication?
A. Publish-Subscribe B. Exclusive Pair C. Push-Pull D. Request-Response	
II)Which statement is not true for Publish-Subscribe Communication model?	
A. Publishers send the data to the topics which are managed by the broker.B. Consumers subscribe to the topics which are managed by the broker.	
C. When the broker receives data for a topic from the publisher, it sends the data to all the	e subscribed consumers.
D Publishers push the data to queues	
III) Which one of the following protocols is lightweight?	
A. IP B. HTTP C. XMPP D. MQTT	
IV) The RFID tags consists of an	
A. Antenna B. Integrated circuit C. Both A and B	

- D. None of the above
- V) Which statement is/are TRUE?
- I: For each physical entity, there will be a virtual entity in the domain model
- II: Virtual entity is the representation of physical entity in digital world.
- III: Physical entity is the representation of virtual entity in real world
- A. I and II
- B. I and III
- C. II and III

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D. All statements

2.Describe the design methodology steps involved in IoT based smart lighting system, with appropriate diagrams. [5 Marks]

3. Compare Machine-to-Machine system architecture with IoT and State 2 differences between REST and WEB Socket API.[3marks + 2Marks]

4. Explain IoT level-5 and IoT level-3 and Application layer protocol XMPP and DDS[3 marks+ 2 Marks]

5.Explain various enabling technologies related to IoT and State various applications of Home Automation System in brief.[4marks +1 Marks]

*** Best of Luck ***