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B.C.A. Semester - VI
EXAMINATION MAY 2023
Internet of Things

[Time: 2 Hours]

[Max. Marks:60]

- Instructions:** 1) All questions are compulsory.
 2) Figures to the right indicate full marks.

- Q1 Define the following.** (5×2=10)
- WoT.
 - Arduino Lily Pad.
 - SaaS.
 - Actuator.
 - Community Cloud.
- Q2 Answer the following.**
- What is Behaviour in Purpose and Requirements Specification step in IoT Design Methodology? 2
 - List any three features of Arduino Web Editor. 3
 - Explain the concept of Fog Nodes and their working. 5
- Q3 Answer the following.**
- List out any two points of differences between IoT and M2M. 2
 - State and Explain any three Cloud Deployment models. 3
 - State and Explain the various components of a DC Motor. 5
- Q4 Answer the following.**
- What is a Relay? 2
 - Briefly Explain Publish-Subscribe Communication Model. 3
 - With a suitable example Explain any application in the Home Automation domain. 5
- Q5 Answer the following.**
- State any two points of differences between Analog and Digital Sensors. 2
 - Describe the term Connectivity in IoT Components. 3
 - Explain Service Specification. 5
- Q6 Answer the following.**
- Define IIoT 2
 - List any three differences between a sensor and a transducer. 3
 - Write down the code in Arduino/Raspberry Pi to blink an LED light after every three seconds. Draw the circuit diagram for the same. 5