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

[Time: 2:00 Hours]

[Max. Marks:60]

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

- Q1 Define the following** (05×02 =10)
- a) M2M
  - b) Arduino Leonardo
  - c) PaaS
  - d) Sensor
  - e) NodeRed
- Q2 Answer the following** (10 Marks)
- a) What is Virtual Entity in Domain Model Specification step in IoT Design Methodology? (02)
  - b) List any three features of Arduino Web Editor. (03)
  - c) List and explain the various features of Cloud Computing. (05)
- Q3 Answer the following** (10 Marks)
- a) List out any two points of differences between IoT and WoT? (02)
  - b) Describe the concept of Sensor Cloud. (03)
  - c) State and explain any five types of Actuators. (05)
- Q4 Answer the following** (10 Marks)
- a) What is a Rotor? (02)
  - b) Briefly Explain Push-Pull Communication Model. (03)
  - c) With a suitable example explain any application in the Environment domain. (05)
- Q5 Answer the following** (10 Marks)
- a) Define Vector Sensors. (02)
  - b) Describe the term Devices in IoT Components. (03)
  - c) Explain Operational View Specification. (05)

Q6 Answer the following

(10 Marks)

- a) Define IoT. (02)
- b) Briefly explain the term Precision. (03)
- c) Write down the code in Arduino/Raspberry Pi to blink an LED light after every ten seconds. Draw the circuit diagram for the same. (05)