



**VII SEMESTER B.TECH. (Program Elective IV)**  
**END SEMESTER MAKE UP EXAMINATIONS – Part B**

**SUBJECT:** Internet of Things (IoT) (CSE 4057)

**Time:** 2.20 PM TO 03.35 PM

**Date:** 26/02/2022

**MAX.MARKS:** 20

**Note:**

1. Missing data may be assumed suitably.
2. PART B is 85 minutes (75 minutes for writing and 10 minutes for uploading)
3. Answer all the questions in order

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|-----------|---|-----------|
| <b>1A</b> | Summarize the various trends in information and communications technologies pertaining to IoT?  | <b>3M</b> |
| <b>1B</b> | Script a code for “blinking a single LED” with a specific delay using Raspberry Pi?   | <b>3M</b> |
| <b>1C</b> | Detail some of the electronics components that you might want to connect to IoT projects?   | <b>4M</b> |
| <b>2A</b> | Detail which OS comes pre-installed with Beagle Bone? Compare its efficacy with OS of Raspberry Pi?   | <b>3M</b> |
| <b>2B</b> | Enumerate a pictorial view of smart city energy services. Give a technical narration on how better smart city energy services could increase efficacy of public life in your own words.   | <b>3M</b> |
| <b>2C</b> | Justify the fact that the purpose of a BAS is typically to reduce energy and maintenance costs, as well as to increase control, comfort, reliability, and ease of use for maintenance staff and tenants with suitable use case? | <b>4M</b> |