



VII SEMESTER B.TECH. (Program Elective IV)
END SEMESTER EXAMINATIONS – Online - Part B
SUBJECT: Internet of Things (IoT) (CSE 4057)

Time: 9.20 AM TO 10.35 AM

Date: 27/12/2021

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

- 1A** Elaborate on the following facts of “prototypes and productions”? **3M**
- a. Changing embedded platform
 - b. Physical prototypes and mass personalization
 - c. Climbing into the cloud
- 1B** Exactly how to choose the right platform for your Internet of Things device? Discuss any four technological factors deciding it? **4M**
- 1C** Why popular Linux distributions like “Raspbian” and “Occidentalis” are imposed as OS on the Raspberry Pi? Give your justification? In what way SSH protocol daemon is enabled by default in Raspberry Pi? **3M**
- 2A** Compare and contrast Beagle Bone Black with Raspberry Pi Model B in terms of CPU speed, GPU, RAM, Storage, OS, and connections? **3M**
- 2B** Depict a pictorial view of M2M interactions among various devices (P2P) and with an energy management system in a Smart House. Provide a summary picture and detail about smart House integration with enterprise services, as demonstrated by the smart house/ smart grid project. **3M**
- 2C** “Monitoring and control of the M2M infrastructure plays a pivotal role to not only extract the necessary information for understanding key energy processes, but also to be able to apply control when decisions are taken” – Justify the statement with a Suitable functional diagram. **4M**