

Roll No

CS-6005 (1) (CBGS)**B.E. VI Semester**

Examination, May 2018

Choice Based Grading System (CBGS)**Internet of Things***Time : Three Hours**Maximum Marks : 70*

- Note:** i) Attempt any five questions
ii) All questions carry equal marks.

1. a) How do the blocks and components in IOT IBM conceptual framework and oracle reference architecture correlate? rgpvonline.com
b) Describe IOT architectural view in detail.
2. a) Why do IOT systems have to be self adapting and self configuring.
b) What are the difference between machines in M2M and things in IOT.
3. a) Describe how NFV can be used for virtualizing IOT devices.
b) Describe data storage in IOT.
4. a) List features of REST architectural style of designing software components.

- b) Explain with example IP addressing in IOT.
5. a) Explain wireless sensor Network Technology.
b) How does an RFID tag securely communicate and read by a reader? How is an RFID tag secured?
6. a) What are the uses of an Analog Sensor? What are the uses of a digital sensors.
b) Explain arduino boards. List the feature which make arduino boards widely used?
7. a) Draw the architecture of Raspberry Pi. Write the IOT application for Arduino R-3, Raspberry Pi?
b) Explain IOT privacy and security solutions.
8. Write short notes on: (any three)
 - i) Media Access Control
 - ii) IOT cloud based services
 - iii) Application of IOT
 - iv) Actuator
