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Total Number of Pages:02

B.Tech  
PCP7H007

7<sup>th</sup> Semester Regular / Back Examination 2019-20  
INTERNET OF THINGS (IOT)

Max Marks: 100

Time: 3 Hours

Q.Code: HRB194

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part- I

Q1 Only Short Answer Type Questions (Answer All-10) (02 x10)

Suggested Words: How, Why, Determine, Derive, State, Write, Create, etc

- What is the purpose of information model?
- Differentiate between WIFI and WIMAX .
- Describe Constraint Application Protocol.
- What are the architectural constraints of REST?
- What is the role of a controller service in an IOT system ?
- Why do IOT systems have to be self adapting and self configuring ?
- Describe an example of IOT service that uses Web-Socket based communication .
- What is the function of communication functional block in an IOT system?
- What is the role of a coordinator in wireless sensor network ?
- Write short note on XMPP application layer protocol.

Part- II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (06x08)

Analyze, Justify, Design, Formulate, Calculate, Develop, Illustrate, Explain, Distinguish, Differences & Similarities

- Write short notes on Industry 4.0 concept.
- Discuss working principle of RFID and its uses.
- Difference between IOT and M2M.
- Write down the key element of Software Defined Networking.
- Write brief note on Network Function Virtualization.
- Write down the limitations of Conventional Network Architecture.
- Explain the IOT application used in health and fitness monitoring.
- Explain basic building blocks of an IOT device .
- Define Wireless Sensor Networks and its uses in IOT systems.
- Differentiate between TCP and UDP.
- Explain the basic hardware interface protocol used in Raspberry Pi board .
- Write a Python program for blinking LED.

**Part-III**

**Only Long Answer Type Questions (Answer Any Two out of Four) (02X16)**

**Discuss, Describe, Examine, Classify, Prove, Evaluate, Compare, Contrast, etc**

- Q3** Write down the characteristics and uses of BIG DATA analysis.
- Q4** Explain with suitable examples different IOT levels.
- Q5** Explain the Cloud Computing Services generally offered to users.
- Q6** Write the technical specification of Raspberry- pi -3 Model- B.