

Total No. of Questions : 4]

SEAT No. :

PA-10336

[Total No. of Pages : 1

[6009]-441

T.E. (Insem.)

**INTERNET OF THINGS ARCHITECTURES, PROTOCOLS
AND SYSTEMS PROGRAMMING (Honours)
(2019 Pattern) (Semester - II) (310603)**

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates :

- 1) Answer Q.1 or Q.2, Q.3 or Q.4.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Assume suitable data if necessary.

- Q1)** a) Draw and explain logical design of IOT. [4]
b) Explain Cloud services model IaaS, PaaS in detail. [6]
c) Define Radio-Frequency Identification. Explain the role of Radio-Frequency identification in Internet of Things. [5]

OR

- Q2)** a) List different IOT enabling technologies which play a key role and explain any of them. [4]
b) Write a brief note on communication models of IOT and communication APIs. [6]
c) Describe the role of cloud services for IOT development. [5]

- Q3)** a) Explain Bluetooth, one of the pillar of IOT. [4]
b) Write a short note on Z-Wave communication technology. [6]
c) What is CoAP? How it is suitable for IOT application? [5]

OR

- Q4)** a) Differentiate between IPv4 IPv6. How IPv6 is more suitable for IOT implementation. [8]
b) Show with suitable reasons why Zigbee is popular than Wi-Fi and Bluetooth in IOT. [7]

