

Total No. of Questions : 4]

SEAT No. :

PC60

[6360]-62

[Total No. of Pages :2

T.E. (Information Technology) (Insem)

INTERNET OF THINGS

(2019 Pattern) (Semester- I) (314445D) (Elective - I)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Answer Q.1 or Q.2 and Q.3 or Q.4.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data, if necessary.*

UNIT - 1

- Q1)** a) Explain the Framework or Architecture of IoT. [5]
- b) Compare IoT and M2M with different parameters. [5]
- c) Write a short note on IoT Enabled Technologies - Wireless Sensor Networks. [5]

OR

- Q2)** a) Explain the IoT Communication APIs. [5]
- b) Differentiate between Software defined Networking (SDN) and Network Function Virtualization (NFV). [5]
- c) Write a short note on IoT Enabled Technologies - Cloud Computing. [5]

UNIT - 2

- Q3)** a) Define Actuators and explain types of actuators with examples. [7]
- b) Draw and explain interfacing of Buzzer with ARDIUNO with a program to ring the buzzer. [8]

OR

P.T.O.

- Q4)** a) Draw and explain interfacing of LED with ARDIUNO with a program to blink it. [7]
- b) Write a short note on: [8]
- i) AC Power devices
 - ii) Servo motor

