

Total No. of Questions : 4]

SEAT No. :

**P8502**

[Total No. of Pages : 1

**Oct-22/BE/Insem - 97**

**B.E. (E & TC)**

**MODERNIZED IOT**

**(2019 Pattern ) (Semester - VII) (Elective - III) (404184 E)**

*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) Figures to the right indicate full marks.
- 4) Use of logarithmic tables, slide rule, Electronic pocket Calculator is allowed.
- 5) Assume Suitable data if necessary.

- Q1)** a) Explain Protocol architecture of IoT. [6]  
b) Explain Web - Socket Communication API. [6]  
c) Write down a difference between IoT and IoE. [3]

OR

- Q2)** a) State the characteristics of IoT also explain the logical and Physical design of IoT. [7]  
b) Explain any 2 Communication model of IoT. [8]
- Q3)** a) Explain in short, several Reference Architectures and Models exist both for M2M and IoT systems. [7]  
b) Write a note on [8]  
i) Device and Gateways.  
ii) Data management.

OR

- Q4)** a) Draw and explain each Functional layers and capabilities of an IoT solution. [7]  
b) Write a note on [8]  
i) Business processes in IoT.  
ii) Everything as a Service (XaaS).

