SEAT No. :

PA-10006

[6008]-262

S.E. (AI & DS) (Insem)
INTERNET OF THINGS
(2019 Pattern) (Semester - II) (217529)

Time : 1 Hour] *[Max. Marks : 30*

Instructions to the candidates:
1) *Attempt Q.1 or Q.2, Q.3 or Q.4.*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Assume suitable data if necessary and mention it clearly.*

Q1) a) Draw a block diagram of basic components of a computer system. Explain each component in detail. **[10]**

b) With an example, write the steps to subtract a large number from a smaller number using 2's complement method. **[5]**

OR

Q2) a) Explain the instruction cycle in detail. **[7]**

b) Difference between microprocessor and microcontroller. **[8]**

Q3) a) Explain about the Stepper Motor System. **[5]**

b) Explain in detail the interfacing I/O Ports-PIO-8255. **[10]**

OR

Q4) a) Explain Peripherals and interfacing with 8086. **[7]**

b) Explain in details modes of operation-interfacing Analog-Digital Data Converter. **[8]**

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