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SEAT No. :

PF217

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APR-26/SE/Insem-268

S.E. (Artificial Intelligence & Data Science) (Insem)

INTERNET OF THINGS

(2019 Pattern) (Semester-IV) (217529) (Theory)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Answer Q.1 or Q.2 and Q.3 or Q.4.
- 2) Draw neat & clean diagrams.
- 3) Assume suitable data, if necessary.

Q1) a) Give the Classification Micro, Mini, Mainframe and Super Computer. [8]

b) Describe in brief the System Bus and Interconnection. [7]

OR

Q2) a) Write a short note on I-cycle. [7]

b) Find 1's & 2's complement for: [8]

i) $(753)_8$

ii) $(ABD)_{16}$

iii) $(763)_{10}$

iv) $(10110101)_2$

Q3) a) Describe in detail semiconductor memory interfacing. [7]

b) Draw and explain architecture of 8255 PPI. [8]

OR

Q4) a) Write a short note on Interfacing I/O ports. [8]

b) State and explain operating modes of 8255 [7]

