

SUBJECT: MICROPROCESSOR & MICROCONTROLLER

Day: Thursday
Date: 09/05/2019

S-2019-2672

Time: 10.00 AM TO 01.00 PM
Max. Marks: 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Assume suitable data if necessary.

Q.1 Describe the architecture of the 8085 with the help of its internal block schematic diagram. **(10)**

OR

Q.1 Discuss the concept of memory mapped I/O and I/O mapped I/O. **(10)**

Q.2 Discuss addressing modes of 8051 microcontroller. **(10)**

OR

Q.2 Discuss internal RAM structure of 8051 microcontroller. **(10)**

Q.3 Interface LCD with 8051 to display "HELLO". **(10)**

OR

Q.3 Interface and WAP of stepper motor with 8051 in anti-clock wise direction. **(10)**

Q.4 Discuss SCON register in detail. **(10)**

OR

Q.4 Discuss CAN protocol in detail. **(10)**

Q.5 What is the role of assembler PIC18F? Discuss data flow instruction of PIC18F with example. **(10)**

OR

Q.5 What is mean by subroutine and macros? **(10)**

Q.6 Describe: **(10)**
i) Timer programming in PIC
ii) RAM / ROM allocation in PIC

OR

Q.6 Write down serial communication in PIC microcontroller. **(10)**

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