

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2019
(Second Semester)

Branch - **APPLIED ELECTRONICS**

PIC MICROCONTROLLER

Time : Three Hours

Maximum : 75 Marks

SECTION -A (30 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks (5 x 6 = 30)

- 1 a Explain the difference between CISC and RISC.
OR
b Discuss about the PIC micro family
- 2 a Brief the various Reset Circuitry.
OR
b Discuss about the WDT.
- 3 a Explain about the MPASM.
OR
b Narrate the various files formats in MPLAB.
- 4 a Explain the interface of stepper motor in detail.
OR
b Discuss the operation of ADC in PIC Micro.
- 5 a Brief the working of remote relay control using PIC Micro.
OR
b Explain the operation of Temperature Controller using PIC Micro.

SECTION -B (45 Marks)

Answer any **THREE** questions

ALL questions carry **EQUAL** Marks (3 x 15 = 45)

- 6 Describe the architecture and hardware description of PIC Microcontroller.
- 7 Explain the Timer Modules of PIC Microcontroller.
- 8 Describe about the various instruction sets of PIC Micro.
- 9 Discuss the inter facing of DC motor driving Via H bridge with PIC.
- 10 Explain the designing of 2 Digit Timer with PIC Micro.

Z-Z-Z

END