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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2019

MICROCONTROLLERS AND PROGRAMMABLE LOGIC CONTROLLERS

[Time: 3 hours

(Maximum marks: 100)

PART — A

(Maximum marks: 10)

Marks

- I Answer all questions in one or two sentences. Each question carries 2 marks.
 - 1. List the four math flags of 8051.
 - 2. List the classes of control transfer in 8051.
 - 3. Write the three modes of 8255 PPI.
 - 4. Define half duplex and full duplex.
 - 5. Write any four types of PLC.

 $(5\times2=10)$

PART — B

(Maximum marks : 30)

- II Answer any five of the following questions. Each question carries 6 marks.
 - 1. Write down the features of 8051 microcontroller.
 - 2. Explain Data pointer and Stack pointer in 8051.
 - 3. Write any four logical operations of 8051 with examples.
 - 4. Explain the difference between JUMP and CALL instructions in 8051.
 - 5. List the basic features of PIC 18.
 - 6. Explain the three steps of PLC operation.
 - 7. Point out the selection criteria of PLC for typical application.

 $(5 \times 6 = 30)$

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