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BOARD DIPLOMA EXAMINATION
MARCH/APRIL - 2019
 * **DIPLOMA IN APPLIED ELECTRONICS AND INSTRUMENTATION**
MICRO CONTROLLERS & APPLICATIONS
FIFTH SEMESTER EXAMINATION

Time: 3 Hours

Total Marks: 80

PART - A (3m x 10 = 30m)

Note 1: Answer all questions and each question carries 3 marks

2: Answers should be brief and straight to the point and shall not exceed 5 simple sentences

1. Distinguish between Microprocessors and Microcontrollers in any three aspects
2. List the interrupts of 8051
3. List any six Special Function Registers of 8051
4. State the use of ADD instruction with an example
5. State the function of Branching Instructions and give an example
6. State Direct addressing mode. Give an Example
7. Define a subroutine
8. Write instructions to set up time delay
9. List any three interfacing peripheral ICs
10. Write CWR (Control Word Register) format of 8255

PART - B (10m x 5 = 50m)

Note 1: Answer any five questions and each carries 10 marks

2: The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer

11. Write the function of the following registers of 8051
 a) PCON b) SCON c) TMOD d) IE e) TH0
- * 12. List and explain the timers of 8051
13. Explain any four branching instructions along with an example for each
14. Draw and explain the timing diagram for memory write operation of 8051
15. Draw flow charts for the following.
 - a. Addition of two 8-bit numbers
 - b. Subtraction of two 8-bit numbers

16. Write a program to find smallest number in an array using jump instruction
17. Draw and explain the interfacing diagram of 8255 with micro controller 8051
18. Explain the seven segment display interface using 8051

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A.A.N.M & V.V.R.S.R POLYTECHNIC , GUDLAVALLERU , KRISHNA

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