



CODE: 6243 (CBCS)

PITHAPUR RAJAH'S GOVERNMENT COLLEGE (AUTONOMOUS), KAKINADA
VI-SEMESTER END EXAMINATIONS-MARCH-2020

III YR B.Sc., SUBJECT/ PAPER: ELECTRONICS-PAPER 7

MICRO CONTROLLER & INTER FACE

DATE: 26.03.2020 (THURSDAY), TIME: 09.00 AM

Max. Marks: 50

Reg. No.

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Duration: 2 Hrs

SECTION - A

Answer any ~~THREE~~ questions.

~~3~~ x 10 = ~~30~~ M

1. Explain about 8 bit and 16 bit microcontrollers in detail with two examples.
2. Draw the pin diagram of 8051 and explain each pin.
3. Draw the block diagram of 8051 and explain each block.
4. Explain instruction set and their usage in 8051.
5. Write a program on largest of any four 16-bit numbers.
6. Draw and explain block diagram of Serial communication in 8051.

SECTION - B

Answer any ~~FOUR~~ questions.

~~4~~ x 5 = ~~20~~ M

7. Explain Harvard architecture.
8. Describe compiler and simulator/debugger in 8051
9. Explain in detail PSW register/
10. Explain about interrupts in 8051.
11. Explain the addressing modes in 8051.
12. Write a program on subtraction of two 8-bit numbers.
13. Write a program on addition of two 16-bit numbers.
14. Write a program on division of two 8-bit numbers.
15. Explain Data communication in 8051.
16. How interrupt priority takes place in 8051.