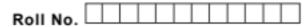


www.FirstRanker.com

www.FirstRanker.com



Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (Electronics & Communication Engineering) (2018 Batch)

(Sem.-4)

MICROPROCESSORS AND MICROCONTROLLERS

Subject Code : BTEC-402-18

M.Code : 77566

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Write briefly :

- 1. What is the need of interrupts in microprocessor?
- 2. How microcontroller is different from microprocessor?
- 3. Differentiate RISC and CISC architectures
- 4. Give memory organization of 8051 microcontrollers.
- 5. Give logical instructions with examples.
- 6. Give significance of program counter.
- 7. What is bit addressability?
- For a time delay of 25ms, what value do you need to load into the timer registers? (Assume XTAL = 11.0592 MHz)
- 9. Discuss the different flags of 8085 microprocessor.
- 10. Discuss the steps of SUBB instruction with the help of example.

1 M-77566

(S2)-332



FirstRanker.com

www.FirstRanker.com

SECTION-B

- Write a program to generate 2 KHz square wave on pin P1.0 of 8051 by using timer 1 in mode 1. Assume XTAL = 20 MHz.
- 12. Discuss RAM organization for 8051.
- 13. Describe PSW and TMOD registers of 8051 microcontrollers.
- What is addressing mode? Explain the different addressing modes with suitable examples for 8085 microprocessor.
- 15. Draw and explain the 8085 architecture.

SECTION-C

- 16. Draw and explain the interfacing of LCD with microcontroller.
- Discuss various sources of interrupt in 8051. Also discuss various SFR's associated with interrupts.
- 18. Draw and explain pin configuration of 8085 microprocessor.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.



www.FirstRanker.com