Code No.: 10419/20419

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS) (Affiliated to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD)

Gundlapochampally (H), Maisammaguda (V), Medchal (M), Medchal-Malkajgiri (Dist), Hyderabad.

III B.Tech II Semester Supplementary Examinations, NOVEMBER-2017

SUBJECT: MICROPROCESSORS AND MICROCONTROLLERS

Branch: Common to EEE & ECE

Time: 3 hours	Max. Marks: 75 Mark
Answer Any 5 Questions	5x15 Marks= 75 Marks
1) (a) Discuss briefly the instruction formats of 8086.(b) What do you mean by addressing modes? What are the different 8086?	[7] t addressing modes supported by [8]
2) Write an ALP to find whether a given number is even or odd. Expla	ain the logic used in this ALP. [15]
3. (a) Explain the steps for interfacing the I/O with 8086.(b) Explain 8255 with neat architecture.	[5] [10]
4. (a) Explain the need for DMA in Microprocessor based systems.(b) Explain the interfacing of 8257 DMA Controller with 8086.	[5] [10]
5) (a) Discuss the serial data transmission standards and their specification (b) Draw and explain the block diagram of 8251.	ations? [5] [10]
 6) (a) Give the features of 8051 microcontroller. (b) Explain the following pins of 8051: AD₀ to AD₇; T₀ and T₁; 	[7+8]; INTO and INT1; TxD and RxD
7) (a) What is meant by interrupt? What are the different interrupts of (b) Draw and discuss the formats and bit definitions of TCON regis	8051? [7] ster in 8051. [8]
8) (a) Discuss on selecting an Analog-to-digital converter? (b) Draw the circuit diagram for ADC AD571 and DAC Interfacing	[7] g with microcontroller 8051. [8]