

TEC-504

110

Printed Pages : 3

Roll No. to be filled in your Answer Book

Roll No.

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B.Tech (5th Semester)**End Semester Examination Dec 2014****ADVANCED MICROPROCESSOR**

Time : Three Hours]

[Max. Marks : 100

Note: Attempt all questions, the marks assigned to each question is indicated at question itself.

Q.1 Attempt any four parts**(5x4=20)**

- (1) Explain the 8085 bus structure.
- (2) Explain why the number of output ports in the peripheral- mapped I/O is restricted to 256 ports.
- (3) Explain the difference between 8085 and 8086 microprocessor.
- (4) Draw the register organization of 8086.
- (5) With the help of block diagram describe 8237 DMA controller.
- (6) Write a subroutine to set the zero flag and check whether the instruction JZ function properly without modifying any register content other than flag.

Q.2 Attempt any four parts

(5x4=20)

- (1) How a keyboard and seven segments LED is interfaced with 8085 microprocessor? Explain.
- (2) Write a program to multiply two digits numbers stored in memory location 2060H and in 2061H and stored the results in memory location 2500H and also draw its flow chart.
- (3) Explain the difference between dual core and core to duo microprocessor in detail.
- (4) Explain the difference between 8253 and 8254 timer and explain 8253 in detail.
- (5) Explain assembler directives. Also explain the types of directives.
- (6) Describe the functional block diagram of 8086 microprocessor.

Q.3 Attempt any two parts

(10x2=20)

- (1) Write a 20ms time delay subroutine using register pair BC clear the Z flags without affecting any other flag in the flag register and return to the main program.
- (2) With the help of block diagram, Explain 8279 keyboard display controller
- (3) Explain the pin configuration of Pentium microprocessor.

Q.4 Attempt any two parts

(10x2=20)

- (1) Describe the functional block diagram of 80186 advanced microprocessor
- (2) Explain the working of USART 8251 in brief and also explain why USART is used for serial data transfer.
- (3) Draw the functional block diagram of 8051 microcontroller and explain its input output port.

Q.5 Attempt any two parts

(10x2=20)

- (1) Explain serial communication addressing mode of 8051 microcontroller
- (2) Write a program in 8085 to count continuously in binary square wave continuously with delay 250micro sec. Use bit D_0 for output port.
- (3) Explain the architecture of 8085 microprocessor in detail.

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