

MODEL QUESTION PAPER

DSCO4 / DSET4

III Semester DIPLOMA Examination, August 2011 MICROPROCESSOR

Time: 3 Hours

Max. Marks: 75

GROUP A : Answer any three questions.

- Q.1 What is program counter? Explain in details.
- Q.2 Explain FLAG register in details.
- Q.3 Draw and explain block diagram of 8085 μ p .
- Q.4 What are the various computer generations? Discuss main features of each generation.
- Q.5 What is control and data bus, Explain function of both in details?

GROUP B : Answer any three questions.

- Q.6 Differentiate 8085 and 8086 Microprocessor in details?
- Q.7 Write an ALP for Subtracting two numbers from registers?
- Q.8 Explain interrupts structure of 8085 μ p .
- Q.9 Explain bus details of 8086 μ p .
- Q.10 Draw and explain 8255 PPI Controller?

GROUP C: All Questions are Compulsory.

Q.11 Fill in the blanks

- (i) Five bits of the flag along with 3 undefined bits is called _____.
- (ii) ALE Stands for_____.
- (iii) BIU stands for_____.
- (iv) _____ group, conditional and unconditional jumps, Call, Restart, instructions are included.
- (v) Active low means_____.

Q.12 Multiple choice question.

- (i) _____ is interface technique 8085.
 - (a) Memory Mapped
 - (b) I/o mapped
 - (c) Both
 - (d) None of these
- (ii) 8255 is _____.
 - (a) PCI
 - (b) DMA
 - (c) Both
 - (d) None of these
- (iii) INTR is _____ Interrupt.

- (a) Hardware (b) Software
- (c) Both (d) None of these
- (iv) In 8255 pin diagram, when it goes high it resets control register and sets all port in I/P mode.
 - (a) $\overline{\text{Read}}$ (b) $\overline{\text{WR}}$
 - (c) Reset (d) Control register
- (v) All segments can start from _____.
 - (a) 00000H (b) 00001H
 - (c) FFFFFH (d) AAAAAH

Q.13 True or false

- (i) SP is used in instruction branching.
- (ii) 8086 is a 16 bit processor.
- (iii) Accumulator is a fastest register.
- (iv) ZERO flag is sets when the result of any operation is not equal to 00H.
- (v) In 8255 μp , to specify the function of each port the control word is written into control word register.
