DMM-3350
Second Year B. Sc. (Sem. IV) Examination
April / May - 2016
Applied Electronics : Paper - IV
(Advance Microprocessor)

Time : 2 Hours] [Total Marks : 50

Instructions :
(1) Fillup strictly the details of signs on your answer book.
Name of the Examination :
SECOND YEAR B. Sc. (SEM. 4)
Name of the Subject :
APPLIED ELECTRONICS - 4
Subject Code No. : 3350 Section No. (1, 2,.....) : Nil

(2) Figure on the right indicates full marks
(3) All symbols and abbreviations have their usual meaning.
(4) Non-programmable calculators are allows.
(5) Q.1 is compulsory.
(6) Assume data, if necessary.

1 Answer in short : 08
   (a) Explain XCHG instruction in brief.
   (b) What is maskable interrupts?
   (c) State the list of the flags of 8086 µP.
   (d) What is the position of the Stack Pointer after the POP instruction?

2  (a) Explain memory organization of 8086. 10
   (b) Define instruction cycle and machine cycle? 4

   OR

2  (a) Illustrate with examples, the instructions PUSH and POP. 10
   (b) Write a program for the addition of a series of 8-bit numbers. The series contain 100 numbers. 4

DMM-3350 ] 1 [ Contd...
3 (a) Explain the concept of segmented memory? What are its advantages? 10
(b) Write the program for separate the odd and even numbers from array. 4

OR

3 (a) Explain different memory pointer in details. 10
(b) Explain Pins of 8086 :
   (i) READY 04
   (ii) RESET.

4 Write short note on : (any two) 14
(a) Rotate Instructions
(b) Operating modes of 8259
(c) ALU of the 8086
(d) Immediate Addressing mode.