DMM-3069
Second Year B. Sc. (Sem. IV) Examination
April / May - 2016
Electronics for Computer Science : Paper - IV
(Advance Microprocessor)

Time : 2 Hours] [Total Marks : 50

Instructions :
(1) Fill up strictly the details of signs on your answer book.
Name of the Examination :
SECOND YEAR B. Sc. (SEM. 4)

Name of the Subject :
ELECTRONICS FOR COMPUTER SCIENCE - 4

Subject Code No. : 3 0 6 9 Section No. (1, 2, .......) : Nil

Seat No. :

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

1  Answer in short : 08
   (a) What is Instruction cycle?
   (b) Explain PUSH instruction.
   (c) What are the two modes of operations present in 8086?
   (d) What is the function of READY pin?

2  (a) What is the purpose of segment registers in 8086? 10
   (b) What are the functions of status pins in 8086? 4

   OR

2  (a) What is interrupt? Explain various interrupts of 10
   8086 in detail.
   (b) Write a 8086 ALP to sort an array of ten bytes in 4
       ascending order.
3 Describe Intel 8086 Microprocessor Architecture.

OR

3 (a) What is master slave connection in 8259? How many maximum number of slaves can be connected to one master?
(b) Give the different types of command words used in 8259?

4 Write short note on: (any two)
(a) Branch instructions of the 8086
(b) Function of Execution unit in 8086
(c) Register Addressing Mode
(d) CALL and RET Instructions.