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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)

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
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. : **3 3 5 0** ☛ Section No. (1, 2,.....) : **Nil**

Seat No. :

Student's Signature

(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**

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 : **04**

(i) READY

(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.