A-2998

Second Year B. Sc. (Sem. III) Examination
March/April – 2015
Applied Electronics : Paper - IV
(Microprocessor Circuits & Application)

Time :   Hours]   [Total Marks : **50**

Instructions :

(1)

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

1 Answer in short :   8
   (a) What is stack ?
   (b) What are the various flags used in 8085 ?
   (c) Explain : (i) SBB C   (ii) NOP
   (d) Which interrupt has the 2nd highest priority ?

2 (a) What do you understand by maskable and non-   10
      maskable interrupt ?
   (b) Explain the following instructions :   4
      (i) STA 5000H   (ii) RLC   (iii) HLT   (iv) INR D
<div align="center">OR</div>

2 (a) Explain the instructions use for Rotate operation.   10

   (b) Write a program for 8085μP to store No. 10H at   4
      memory location 4200H, 11H at 4201H and 12H at
      4202H.

3   (a)   How do the instructions of 8085 is classified based on   **10**
          their length ? Give an example.

    (b)   Write a program to add two numbers of 8-bit each.   **4**

OR

3   (a)   Draw the Architectural block diagram of 8085 μP and   **12**
          explain in detail the function of each block.

    (b)   Explain instructions : DAA.   **2**

4   Write short notes on : (any **two**)   **14**

    (a)   Arithmetic group instruction set

    (b)   Difference between a JMP and a CALL instruction

    (c)   The 8255 control word format

    (d)   SIM Instruction.

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