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)

Fill up strictly the details of signs on your answer book.
Name of the Examination:
S. Y. B. SC. (SEM. 3)
Name of the Subject:
Applied Electronics - IV (Microproc. Circuits & Appli.)
Subject Code No.: 2 9 9 8 [Section No. (1, 2,......) NII

Seat No.:

(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 :
(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-
maskable interrupt ?
(b) Explain the following instructions :
(i) STA 5000H (ii) RLC (iii) HLT (iv) INR D
OR
2 (a) Explain the instructions use for Rotate operation.
(b) Write a program for 8085μP to store No. 10H at
memory location 4200H, 11H at 4201H and 12H at
4202H.

A-2998] 1 [Contd...
3  (a) How do the instructions of 8085 is classified based on their length? Give an example.  
(b) Write a program to add two numbers of 8-bit each.  

OR

3  (a) Draw the Architectural block diagram of 8085 μP and explain in detail the function of each block.  
(b) Explain instructions : DAA.  

4  Write short notes on : (any two)  
(a) Arithmetic group instruction set  
(b) Difference between a JMP and a CALL instruction  
(c) The 8255 control word format  
(d) SIM Instruction.