



A-3004
Second Year B. Sc. (Sem. III) Examination
March / April - 2015
Electronics for Computer Science : Paper - IV
(Microprocessor 8085)

Time : Hours]

[Total Marks : 50

Instructions :

(1)

<p>नीचे दर्शाविए निशानीवाणी विगतो उत्तरवही पर अवश्य कपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : S.Y. B.SC. (SEM. 3)</p> <p>Name of the Subject : ELECTRONICS FOR COMPUTER SCIENCE : PAPER - IV</p> <p>Subject Code No. : 3 0 0 4 Section No. (1, 2,.....) : NIL</p>	<p>Seat No. : [][][][][][][]</p> <p style="text-align: center; border: 1px solid black; border-radius: 15px; padding: 10px;">Student's Signature</p>
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- (2) Figure on the right indicates full marks
- (3) All symbols and abbreviations have their usual meaning.
- (4) Non-programmable calculators are allowing.
- (5) Q.1 is compulsory.
- (6) Assume data if necessary.

1 Answer in short : 8

(a) What is a stack top ?

(b) What are the various flags used in 8085 ?

(c) Explain : (i) SUB M (ii) HLT.

(d) Which interrupt has the highest priority ?

2 (a) What do you understand by maskable and non-maskable interrupt ? 10

(b) Explain the following instructions : 4

(i) LDA 2000H (ii) RRC (iii) NOP (iv) INR C

OR

2 (a) What are different operating modes of 8255 ? 10

Explain mode 1 of its operation in detail.

(b) Explain the 8253 control word format. 4

- 3 (a) Explain the function of the following pins of 8085 μ P : 10
(i) $AD_0 - AD_7$ (ii) ALE (iii) Ready
(iv) INTR (v) HOLD
- (b) Explain the terms : T-state, Machine cycle. 4
- OR**
- 3 (a) How do the instructions of 8085 is classified based on 10
their function ? Give an example.
- (b) Write a program to add two numbers of 8-bit each. 4
- 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) Subroutine.
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