



JB-3162
Second Year B. Sc. (Sem. IV) Examination
April/May – 2013
Electronics : Paper - IV
(Microprocessor 8085)

Time : Hours]

[Total Marks : 50

Instructions :

(1)

<p>नीचे दशांशिक निशानीवाणी विगतो उत्तरवही पर अवश्य कभवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : S. Y. B. Sc. (Sem. 4)</p> <p>Name of the Subject : Electronics : Paper - 4</p> <p>Subject Code No. : <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; text-align: center;">3</td><td style="width: 20px; text-align: center;">1</td><td style="width: 20px; text-align: center;">6</td><td style="width: 20px; text-align: center;">2</td></tr></table> Section No. (1, 2,.....) : Nil</p>	3	1	6	2	<p>Seat No. : <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table></p> <div style="border: 1px solid black; border-radius: 15px; width: 100%; height: 80px; margin-top: 10px; display: flex; align-items: center; justify-content: center; text-align: center;">Student's Signature</div>						
3	1	6	2								

- (2) Figures on the right indicate 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 a stack pointer ?
 - (b) Explain pin HOLD of 8085 μ P.
 - (c) What is a Bus ? What is the width of Data bus and Address bus in case of 8085 μ P.
 - (d) List the internal components generally found in a programmable device.
- 2 (a) Draw the architectural block diagram of 8085 μ P and explain in detail the function of each block. 12
- (b) Explain : Opcode and Operand. 02

OR

- 2 (a) Explain PPI 8255 in detail with the help of block diagram. 12

- (b) Specify the bit of a control word for the 8255, which differentiates between the I/O mode and the BSR mode ? **02**
- 3** (a) Discuss about different addressing modes in 8085 μ P ? **08**
(b) Explain the instructions use for Rotate operation. **06**

OR

- 3** (a) Explain the following instruction of 8085 μ P. **08**
(i) ADD M
(ii) MVI data
(iii) CMP M
(iv) DCR B
- (b) Write a program to add ten data bytes. Data is stored in memory locations starting from E100. The result is 8 bits only. Store the result at E200 location. **06**
- 4** Write short notes on (any TWO). **14**
(a) Instruction execution operation.
(b) RET instruction.
(c) Subroutine.
(d) Interrupt structure of 8085 μ P.
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