



JB-3166
Second Year B. Sc. (Sem. IV) Examination
April/May – 2013
Applied Electronics : Paper - IV
(Advance Microprocessor)

Time : Hours]

[Total Marks : 50

Instructions :

(1)

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| <p>નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : SECOND YEAR B. SC. (SEM. 4)</p> <p>Name of the Subject : APPLIED ELECTRONICS : PAPER - 4</p> <p>Subject Code No. : 3 1 6 6 Section No. (1, 2,.....): NIL</p> | <p>Seat No. : <input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; width: 100%;">Student's Signature</div> |
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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 allowed.
- (5) Q.1 is compulsory.
- (6) Assume data if necessary.

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| 1 | Answer in short : | 8 |
| | (a) What do you mean by minimum modes in the 8086 microprocessor ? | |
| | (b) Explain the basic function of EU. | |
| | (c) Write the function of INTR and NMI pin of 8086. | |
| | (d) What is operating modes of 8259 PIC ? Briefly explain it. | |
| 2 | (a) Draw the pin diagram of 8086 microprocessor and explain each pin. | 8 |
| | (b) Explain Operand registers and Flag register of 8086 in brief. | 6 |

OR

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| 2 | (a) Explain working of memory pointer in detail. | 8 |
| | (b) Explain stack instruction in detail. | 6 |

- 3 (a) Explain concept of addressing modes of 8086 in detail. 8
(b) Write the assembly language program to find sum of 6
numbers in the array.

OR

- 3 (a) Why we use Logical instruction ? Explain Logical 8
instruction in brief.
(b) Write notes on Flag control instruction of 8086. 6
- 4 Write short notes : (any two) 14
(a) Memory pointer
(b) Memory segmentation
(c) Control and command word of 8259
(d) Pin Configuration of 8259.
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