



RB-3987-88
B. Sc. (IT) (Sem. IV) Examination
April / May – 2010
Microprocessor & Assembly Language
(Old Course)

Time : 3 Hours]

[Total Marks : 70

RB-3987

Instructions :

(1)

<p>नीचे दर्शायेव निशानीवाणी विगतो उत्तरवडी पर अवश्य कपनी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination :</p> <p>← B. Sc. (IT) (Sem. 4)</p> <p>Name of the Subject :</p> <p>← Microprocessor & Assembly Language (Old)</p> <p>← Subject Code No. : 3 9 8 7 ← Section No. (1, 2,.....): 1</p>	<p>Seat No. :</p> <table border="1" style="width: 100%; height: 20px;"><tr><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td></tr></table> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; margin-top: 10px; text-align: center;">Student's Signature</div>						

- (2) Write section-I and Section-II in **separate** sheets (with different subject code).
- (3) Draw the figure and give example whenever necessary.

1 Answer following questions : 10

(1) Explain following instructions (any **five**)

- (a) MOV DL, F3 h
- (b) ROL BL, CL
- (c) SUB CL, DL
- (d) DAA
- (e) OR,DX,CX
- (f) ADDC AL, BL

(2) Write the addressing modes of the 8086 microprocessor.

2 Answer the following questions in detail : (any **three**) 15

- (1) Explain the FLAG register of 8086
- (2) Explain (i) Linker (ii) Assembler
- (3) Compare 80386 and 80486
- (4) Write the function register: ES,BP,IP,DI,CS,BP

3 Briefly explain 8086 architecture with the help of block diagram. 10

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Instructions :

(1)

नीचे दृशावेक निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
<input type="text" value="B. Sc. (IT) (Sem. 4)"/>	<input type="text" value="Student's Signature"/>
Name of the Subject :	
<input type="text" value="Microprocessor & Assembly Language (Old)"/>	
Subject Code No. : <input type="text" value="3"/> <input type="text" value="9"/> <input type="text" value="8"/> <input type="text" value="8"/>	Section No. (1, 2,.....) : <input type="text" value="2"/>

- (2) Write section-I and Section-II in **separate** sheet (with different subject code).
- (3) Draw the figure and give example whenever necessary.

4 Answer the following questions. 10

- (1) Explain the function of the 8086 pins :
- NMI
 - +VCC
 - A16-A19
 - AD0-AD15
 - +BHE
 - GND
- (2) Describe Assembler Directives
- DB
 - DW
 - SEGMENT
 - ENDP

5 Answer following questions in detail : (any **three**) 18

- Explain block diagram of programmable interrupt controller ic. 8259.
- Explain the block programmable peripheral interface 8255
- What is interrupt vector table describe TYPE-2, TYPE-0 INTERRUPT
- Explain IDE,SCSI,VESA

6 Write program to calculate average of 10 numbers and store its result in data segment memory 7

OR

6 Write program to arrange given 10 numbers in descending order and store result in data segment memory. 7