



KATHMANDU UNIVERSITY
End Semester Examination [C]
June, 2018

Level : B. Sc.
Year : II
Time : 2 hrs. 30 mins.

JUN 17 2018
Course : COMP 231
Semester : II
F. M. : 40

SECTION "B"

[6Q. x 4= 24]

Attempt *ANY SIX* questions.

1. What are the features of difference engine? Mention instruction format of assembly language.
2. Define Microprocessor. Describe control and status signals Intel 8085 Microprocessor.
3. Explain functional block diagram of Intel 8085.
4. What do you mean by the instruction? Explain 1-byte, 2-byte and 3-byte instruction with example.
5. Describe the mode 3 operation of 8254 programmable interval timer with timing diagram.
6. What are addressing modes of 8086 microprocessor? Explain with examples.
7. What do you mean by stack? Describe the use of PUSH R_p instruction.

SECTION-"C"

[2Q. x 8 = 16]

Attempt *ANY TWO* questions

8. What is machine cycle? Describe pin diagram of Intel 8086 in detail with the help of suitable diagram.
9. What is Interrupt processing? Explain functional block diagram of programmable interrupt controller 8259A.
10. Describe DMA on 8086 microprocessor. Mention 8237 block diagram with figure.

