

Register Number :

Name of the Candidate :

1 3 3 2

B.Sc. DEGREE EXAMINATION, 2011

(COMPUTER SCIENCE)

(SECOND YEAR)

(PART - III)

(PAPER -VI)

210 / 240. COMPUTER ARCHITECTURE

AND MICROPROCESSORS

(Common with B.Sc.(I.T)

& Lateral Entry)

May] [Time : 3 Hours

Maximum : 100 Marks

SECTION - A (8 × 5=40)

Answer any EIGHT questions.

All questions carry equal marks.

1. Write short notes on fan in, fan out and loading.

Turn Over

2. Construct a logic diagram for realizing AND and OR gates , using Universal gates.
3. Write short notes on JK flip-flop.
4. Describe the different bits present in the flag register of 8085.
5. Write short notes on memory map.
6. Compare indexed addressing Vs immediate addressing.
7. Explain the use of counters.
8. Explain the use of counters with time delay.
9. Write short notes on software development system.
10. Explain the use and features of stack pointer.

SECTION - B (3×20 = 60)

Answer any THREE questions.

All questions carry equal marks.

11. Explain in detail about the various postulates of Boolean algebra.
12. Illustrate with neat diagram, the architecture of 8085 microprocessor.

13. Explain with suitable example, the arithmetic and logic operation instructions of 8085.
14. What are counters ? What are the different applications of counters ? Explain any one counter design with suitable diagram.
15. Write a ALP to convert BCD to binary conversion.