

D 91052

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Name...

Reg. No

FIFTH SEMESTER B.C.A. DEGREE EXAMINATION, NOVEMBER 2015

(U.G.—CCSS)

Core Course

CA 5B 08—MICRO PROCESSOR

Time : Three Hours

Maximum : 30 Weightage

I. Answer all *twelve* questions :

1. 8086 has ~~memory.~~ _____
2. IP register contains _____
3. In 8086 ~~ends a segment.~~ _____
4. ~~is an example of hardware interrpt.~~ _____
5. In 8086 the function of LDS reg, mem _____
6. A 32 bit microprocessor has the word length equal to _____
7. In a DMA write operation the data is transferred from _____ to _____
8. All I/O devices are connected indirectly to the **INTR** control line, through _____
9. ~~is a segment of code that~~ needs to be written only once.
10. ~~is~~ an example of logical instruction.
11. Example for value returning attribute operators is _____
12. Putting something on stack is called _____

(12 x $\frac{1}{4}$ = 3 weightage)

II. Answer all *nine* questions :

13. Define different type registers used in a microprocessor.
14. What are functions of flag register ?
15. What is the function of INT instruction ?
16. What is DMA ?
17. Explain different string instructions used in 8086.
18. What is meant by modular programming ?
19. Explain branch instructions in 8086.

Turn over

- 20. What is meant by maskable interrupt?
- 21. Explain indirect address mode in 8086.

(9 x 1 = 9)

III. Answer any *five* questions :

- 22. Explain different registers used in a microprocessor.
- 23. Explain the concept of MACRO.
- 24. Explain Super scalar architecture of Pentium processor.
- 25. What are assembler directives ?
- 26. Explain Arithmetic and logic instructions used in 8086.
- 27. Write an 8086 program to solve the equation $(X + Y) * (2Y - Z)$. Where X, Y and Z refers to memory locations.
- 28. Write the applications of 8255.

(5 x 2 =10 weightage)

IV. Answer any *two* questions :

- 29. Explain 8086 interrupts and interrupt routine in detail.
- 30. Explain internal processor architecture of 8086 using functional block diagram.
- 31. Compare features of 8086, 486 and Pentium.

(2 x 4 = 8 weightage)