(Pages : 2)   Name...........................**14**

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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 × ¼ = 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 × 1 = 9 weigh

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
to memory locations.

28. Write the applications of 8255.

(5 × 2 = 10 weigh

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 × 4 = 8 weigl