19U568S   (Pages: 2)   Name: ………..…..……….

Reg. No: …………..………

FIFTH SEMESTER B.C.A. DEGREE EXAMINATION, NOVEMBER 2021
(CUCBCSS - UG)
CC15U BCA5 B12 - MICROPROCESSOR AND APPLICATIONS
(Computer Application – Core Course)
(2015, 2016 Admissions - Supplementary)

Time: Three Hours   Maximum: 80 Marks

PART A
Answer *all* questions. Each question carries 1 mark.

1. Define microprocessor.

2. List few data movement instructions.

3. 8086 is a _____ bit microprocessor.

4. What is meant by address data lines?

5. List four registers used in 8086 processor.

6. What is the use of HOLD and HLDA pins?

7. Name few jump instructions.

8. What is the function of DMA in 8086?

9. XCHG is a type of 8086 String instruction. True or False?

10. Name two functional units of 8086.

(10 × 1 = 10 Marks)

PART B
Answer *all* questions. Each question carries 2 marks.

11. Compare the features of 80286 and 80486.

12. Write any two arithmetic instructions with examples.

13. What is the purpose of status flags?

14. Differentiate hardware and software interrupts.

15. Explain minimum and maximum mode operation of 8086.

(5 × 2 = 10 Marks)

PART C
Answer any *five* questions. Each question carries 4 marks.

16. Explain alignment directives in short.

17. What are logical instructions? List any four.

18. Explain in detail about macros.

19. Briefly explain DAA & DAS instructions.

20. Explain the significance of timers in processor.

21. Write any four features of Intel 8086 processor.

22. List any two shift instructions with example.

23. Briefly explain maskable and non-maskable interrupts.

(5 × 4 = 20 Marks)

PART D
Answer any *five* questions. Each question carries 8 marks.

24. Explain various addressing modes.

25. Explain Programmable Interval Timer.

26. Write notes on Target Machine code generation directives.

27. Explain any four String Instructions.

28. Elaborate 8257 DMA Controller with a neat diagram.

29. Write notes on 8086 interrupts.

30. Write notes on processor control instructions.

31. Explain the architecture of 8086 with a neat diagram.

(5 × 8 = 40 Marks)

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