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Name:

Reg. No.....

FIFTH SEMESTER B.C.A. DEGREE EXAMINATION, NOVEMBER 2018

(CUCBCSS-UG)

CC15U BCA5 B12 - MICROPROCESSOR AND APPLICATIONS

(Computer Application - Core Course)

(2015 Admission onwards)

Time: Three Hours

Maximum: 80 Marks

Part A

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

1. What is the size of instruction queue in 8086?
2. _____ holds the offset address of memory location of the next instruction to be executed.
3. The 8086 microprocessor has _____ bit address bus.
4. The NMI signal of 8086 microprocessor stands for _____.
5. The 8086 has _____ lines over which address or data multiplexed.
6. The HLDA signal of the 8086 stands for _____.
7. The _____ directive is used to indicate the start of a logical segment.
8. The BIU stands for _____.
9. The instruction _____ replaces the number in the destination with its 2's complement.
10. The 8255 PPI can function in _____ modes.

(10 x 1 =10 Marks)

Part B

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

11. What is MACRO?
12. What are assembler directive?
13. What is tri-state logic?
14. What is meant by key addressing mode?
15. What is DMA?

(5 x 2 = 10 Marks)

Part C

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

16. How to generate the 20 bit physical address?
17. Explain flag registers in 8086.

18. Explain minimum mode of 8086 with block diagram.
19. What is direct addressing mode? Explaining with example.
20. What is interrupt vector?
21. What are the functions an interrupt controller?
22. What are the different functional units of 8253 Interval Timer?
23. What are the features of 80486?

(5 x 4 = 20 Marks)

Part D

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

24. Explain the register organization of the 8086 microprocessor.
25. Describe the addressing modes of 8086?
26. Explain working of 8251A with block diagram.
27. Explain the interrupt structure of 8086.
28. What are the different categories of instruction sets? Describe with examples.
29. Explain processor control instructions of 8086 with example.
30. Explain the functional units 8255 with block diagram.
31. Explain BIOS interrupts.

(5 x 8 = 40 Marks)
