

18U634

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Name:

Reg. No.....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS-UG)

CC17U BCS6 B16b - MICROPROCESSOR AND APPLICATIONS

(Computer Science – Elective)

(2018 Admission - Regular)

Time: Three Hours

Maximum: 80 Marks

Part A

Answer *all* questions. Each question carries 1 mark

1. What are the two internal functional unit of the 8086 microprocessor?
2. Define the term word length.
3. What is the function of address bus?
4. What is application of a DMA?
5. What is DWORD? How can it be declared?
6. What is tri-state logic?
7. List general purpose registers.
8. Expand BIOS.
9. What is pipelining?
10. How physical address is generated in 8086?

(10 × 1 = 10 Marks)

Part B

Answer *all* questions. Each question carries 3 marks.

11. What is key debouncing?
12. Explain the purpose of pointer and index register.
13. What is meant by register indirect addressing in 8086? Give example.
14. Define Assembler directives.
15. Write the basic functions of Intel 8259 PIC.

(5 × 3 = 15 Marks)

Part C

Answer any *five* questions. Each question carries 5 marks.

16. Describe 8086 DOS interrupts.
17. Write a note on different operating modes of 8255.
18. List and explain data control directives of 8086 assembly language.
19. Draw the bit pattern for 8086 flag register and explain the significance of each bit.

20. Explain any four assemble directives.
21. Give a functional description of the 8212 programmable I/O port.
22. List and explain the control transfer instructions of 8086.
23. What are segment registers? Explain the purpose of them.

(5 × 5 = 25 Marks)

Part D

Answer any *three* questions. Each question carries 10 marks

24. Give short note on the architecture and features of the Intel 80286 microprocessor.
25. Describe minimum mode and maximum mode configuration of the 8086 microprocessor.
26. What is macro? What are its advantages? How can you define and use macros in 8086 assembly language?
27. Describe 8253 programmable interval timer.
28. Explain the functional unit of 8086 with block diagram.

(3 × 10 = 30 Marks)
