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Reg. No.....

Name.....

B.C.A. DEGREE (C.B.C.S.S.) EXAMINATION, NOVEMBER 2022

Fourth Semester

MICROPROCESSOR AND PC HARDWARE

(2013—2016 Admissions)

Time : Three Hours Maximum Marks : 80

Part A

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

1. How many I/O addresses are there in Intel 8085 microprocessor ?
2. What is LDA instruction in 8085 ?
3. How many bits are there in the data bus of 8086 ?
4. How many registers are provided by 8086 ?
5. What is super I/O chip ?
6. What is a processor bus ?
7. What is VFAT ?
8. What is disk formatting ?
9. What is physical memory ?
10. What is upper memory area ?

(10 × 1 = 10)

Part B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. How many instructions are there in 8085 ?
12. What are the various addressing modes of 8085 ?
13. What is DAD instruction in 8085 ?
14. What are the 2 modes of operation of 8086 ?
15. What are the basic components of a motherboard ?

Turn over

16. What is the function of a memory bus ?
17. What is NTFS ?
18. What is the role of a stack pointer in 8086 ?
19. What is destination index in 8086 ?
20. What is high memory area ?
21. What is the difference between extended and expanded memory ?
22. What is the use of log files ?

(8 × 2 = 16)

Part C

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

23. Briefly, describe the register structure of 8085.
24. Briefly, explain the status flags of 8085.
25. Briefly, explain PUSH and POP operations in 8086 ?
26. Briefly, explain various registers in 8086.
27. Briefly, explain various interrupts in 8086.
28. Briefly, explain various types of I/O buses.
29. Briefly, explain ROM BIOS.
30. Briefly, explain FAT disk.
31. Briefly, explain memory modules.

(6 × 4 = 24)

Part D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Explain the architecture of 8085 with diagrams and illustrations.
33. Explain architecture of 8086 with diagrams and illustrations.
34. Explain addressing modes of 8086 with diagrams and illustrations.
35. Explain the construction and working of a hard disk drive along with its various operations.

(2 × 15 = 30)