

E 1683

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Reg. No.....

Name.....

B.C.A. DEGREE (C.B.C.S.S.) EXAMINATION, APRIL 2018

Fourth Semester

MICROPROCESSOR AND PC HARDWARE

(2013 Admission onwards)

Time : Three Hours

Maximum Marks : 80

Part A

Answer all questions.

Each question carries 1 mark.

1. What is accumulator ?
2. What is assembly language ?
3. Name the four operations performed by a microprocesses.
4. What is a microprocessor ?
5. What is a Stack ?
6. Expand the term ISA.
7. What is AGP ?
8. Define bus cycle.
9. What is RAM ?
10. What do you mean by physical memory ?

(10 × 1 = 10)

Part B

Answer any eight questions.

Each question carries 2 marks.

11. Explain the flag register of 8055.
12. What is FAT Disk ?
13. What is the difference between address bus and control bus ?
14. What is the function of ALE and HOLD pins in 8085 ?
15. What are the interrupt pins used in 8085 ?

Turn over

16. What is a timing diagram ?
17. Write the format of an instruction in 8086.
18. Write short notes on NTFS.
19. What is hard disk ?
20. Define instruction cycle.
21. Write short notes on PCI bus.
22. What is high memory area ?

(8 × 2 = 16)

Part C

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

23. Explain the data transfer instructions in 8085.
24. Explain the different types of memory modules.
25. What are the features of a hard disk ?
26. What are the addressing modes used in 8085.
27. Draw the pin diagram of 8086 microprocessor.
28. Distinguish between extended and expanded memory.
29. What are the components of a motherboard ?
30. Differentiate between real mode and protected mode operations.
31. Write notes on conventional base memory.

(6 × 4 = 24)

Part D

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

32. Explain in detail the arithmetic and logical instructions in 8085.
33. Discuss the different addressing modes in 8086 microprocessor.
34. With the help of a neat diagram, explain the architecture of 8085.
35. Explain the operations, formatting and installation of a hard disk.

(2 × 15 = 30)