

B.C.A. DEGREE (C.B.C.S.S.) EXAMINATION, MARCH 2019**Fourth Semester****MICROPROCESSOR AND PC HARDWARE****[2013 to 2016 Admissions]****Time : Three Hours****Maximum Marks : 80****Part A***Answer all questions.**Each question carries 1 mark.*

1. What is a register ?
2. Define Microprocessors.
3. What is a bus ?
4. What is an assembler ?
5. What are the parts of a microprocessor ?
6. Expand USB.
7. What is a motherboard ?
8. What is the function of program Counter ?
9. Distinguish between RAM and ROM.
10. What is an interrupt ?

(10 × 1 = 10)**Part B***Answer any eight questions.**Each question carries 2 marks.*

11. What do you mean by instruction cycle ?
12. Write notes on AGP.
13. What is upper memory area ?
14. What do you mean by bus cycle ?
15. What are the different types of buses ?
16. Write notes on ROM BIOS.
17. What is FAT disk ?
18. What are the flags used in 8085 ?
19. Write the instruction format of 8085 microprocessor.

20. Write any four logical instructions.
21. What is the difference between static and dynamic memory ?
22. Discuss expanded memory.

(8 × 2 = 16)

Part C

Answer any six questions.

Each question carries 4 marks.

23. What are the components of a motherboard ?
24. Explain the addressing modes used in 8085.
25. What are the different operating modes of 8086 microprocessor ?
26. Write short notes on NTFS.
27. Explain the features of extended memory.
28. Discuss super I/O chip.
29. What are the registers used in 8086, microprocessor ?
30. Explain the functions of VFAT disk.
31. What is a timing diagram ? Draw a timing diagram and explain.

(6 × 4 = 24)

Part D

Answer any two questions.

Each question carries 15 marks.

32. Draw the pin-out diagram of 8086 microprocessor and explain.
33. Explain the features and components of a hard disk.
34. Explain the arithmetic and data transfer instructions in 8085 microprocessor.
35. (a) What is physical memory ? Explain.
(b) Briefly explain the memory modules SIMMs, DIMMs and RIMMs.

(2 × 15 = 30)