



BCA DEGREE (CBCS)EXAMINATION, MARCH 2021

Third Semester

Bachelor of Computer Application

Core Course - CA3CRT01 - MICROPROCESSOR AND PC HARDWARE

2017 Admission Onwards 96796705

Time: 3 Hours Max. Marks: 80

Part A

Answer any **ten** questions.

Each question carries **2** marks.

- 1. Define microprocessor.
- 2. Differentiate between maskable and nonmaskable interrupts.
- 3. What are interrupts of Intel 8085?
- 4. Explain instruction format of 8085?
- 5. What is the need of motherboard in your system?
- 6. What is meant by co-processor?
- 7. Write about super I/O chip.
- 8. How can we select a motherboard?
- 9. Write briefly about high level formatting.
- 10. What is FAT?
- 11. What is NTFS?
- 12. Write the advantages of RIMM over other types of memory modules .

 $(10 \times 2 = 20)$

Part B

Answer any six questions.

Each question carries 5 marks.

13. How the instruction and data flow carried out in 8085 microprocessor? Explain.



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- 14. What is meant by data transfer group of the Intel 8085 instruction set? Explain with suitable instructions.
- 15. Explain different move instructions with examples .
- 16. Write about USB.
- 17. What is POST and Bootstrap loader? Explain.
- 18. Differentiate between memory bus and processor bus .
- 19. Explain different read/write heads.
- 20. Describe the HD features.
- 21. Write note on extended memory.

 $(6 \times 5 = 30)$

Part C

Answer any two questions.

Each question carries 15 marks.

- 22. Draw the block diagram and explain the components of Intel 8085.
- 23. Discuss about each group of instruction set of Intel 8085 microprocessor with examples.
- 24. Explain the hard disk operations.
- 25. Discuss about each one (a) Convensional memory (b) UMA (c) HMA

 $(2 \times 15 = 30)$

