



QP CODE: 24026857



24026857

Reg No :

Name :

**BCA DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE
EXAMINATIONS, OCTOBER 2024**

Third Semester

Bachelor of Computer Applications

CORE COURSE - CA3CRT01 - MICROPROCESSOR AND PC HARDWARE

2017 Admission Onwards

78CDE4E2

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Define instruction cycle.
2. What are interrupts of Intel 8085?
3. Explain instruction format of 8085.
4. What is the difference between shift and rotate instruction?
5. What is meant by logical group of instructions ?
6. What is meant by co-processor ?
7. Write about super I/O chip .
8. Define memory bus .
9. Define tracks and sectors .
10. What is the function of logic board in HDD ?
11. What are the advantages of VFAT over FAT?
12. What do you know about extended memory?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Write note on stack pointer register .





14. Define timing diagram and explain with the timing diagram for opcode fetch cycle .
15. Briefly explain the instruction set of Intel 8085
16. Define motherboard and write the importance of motherboard in the system .
17. Explain the importance of POST in booting process .
18. What are the factors consider while we are selecting a motherboard ?
19. What are the different recording media with the HDD?
20. Compare and contrast FAT and FAT32 .
21. Define memory modules and explain any one type of memory module .

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. With the help of pin diagram explain the operations of 8085 microprocessor .
23. Write the importance of local buses and discuss about PCI local bus .
24. Explain the disk formatting method in HDD .
25. Explain conventional memory, upper memory are and high memory area with suitable diagram .

(2×15=30)

