22100509

QP CODE: 22100509

Reg No : .....

Name : .....

BCA DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, APRIL 2022

Third Semester

Bachelor of Computer Applications

CORE COURSE - CA3CRT01 - MICROPROCESSOR AND PC HARDWARE

2017 Admission Onwards

841303EC

Time: 3 Hours Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. Define instruction cycle.
2. What is the function of Program counter?
3. Name the different types of instructions in the instruction set of 8085 .
4. Explain instruction format of 8085?
5. Define stack and stack related instruction.
6. What is AGP ?
7. Define processor socket .
8. What is processor bus ?
9. What do you mean by sputtering process ?
10. What are the head actuator mechanisms in HDD ?
11. What are the advantages of VFAT over FAT ?
12. Define memory module .

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. Explain briefly the registers in 8085 microprocessor.

14. Discuss about the status flags of Intel 8085.

15. Define addressing mode and describe the addressing modes of Intel 8085 .

16. What is POST and Bootstrap loader ? Explain .

17. Chipset is the motherboard itself . Comment.

18. Explain the criteria for motherboard selection .

19. Differentiate low-level formatting and high-level formatting.

20. Compare and contrast FAT and FAT32 .

21. Explain the advantages and limitations of RIMM compared to other type of memory modules.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Explain the pin diagram of Intel 8085 .

23. Define expansion slots and explain any three types of expansion slots in detail .

24. Explain the hard disk operations .

25. Discuss about each one
(a) Convensional memory (b) UMA (c) HMA

(2×15=30)