K21U 2142

Reg. No. : ....

Name : ....
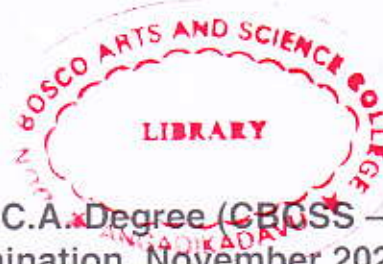
III Semester B.C.A. Degree (CBCSS – Sup./Imp.)
Examination, November 2021
(2015-'18 Admissions)
Core Course
3B06BCA : COMPUTER ORGANIZATION

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. One-word answer. (8×0.5=4)

   a) The _____ holds the instruction that is currently being executed.

   b) In _____ mode the operand is given explicitly in the instruction.

   c) _____ is the storage location for the temporary storage of information during the process of writing to or reading from main memory.

   d) In 8085 microprocessor number of machine cycles required for RET instruction is _____.

   e) The DMA controller is directly connected to the _____ to provide faster transfer of data.

   f) Floating point representations is used to store _____.

   g) Cache memory acts between _____ and _____.

   h) _____ is a method of accessing computer memory or bus without interfering with the CPU.

SECTION – B

Write short notes on **any seven** of the following questions. (7×2=14)

2. Explain different functional units of a computer.

3. What is multiprogramming ?

4. Define register transfer language.

5. What is a register ?

6. What is priority interrupt ?

7. Define cache memory.

8. Define control word.

9. Define write-through method.

10. Define polling.

11. Write a note on reverse polish notation.

SECTION – C

Answer **any four** of the following questions. (4×3=12)

12. Explain floating point representation.

13. Explain RISC in detail.

14. Explain direct mapping in detail.

15. Write a short note on crossbar switch.

16. Write a note on DMA controller.

17. Distinguish between full duplex and half duplex transmission.

SECTION – D

Write an essay on **any two** of the following questions. (2×5=10)

18. Explain basic operational concept of a computer with the help of diagram.

19. Explain different asynchronous data transfer method in detail.

20. Write a note on addressing modes and its various types.

21. Explain different modes of data transfer to and from peripherals.