K18U 0094

Reg. No. : .................................
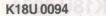
Name : .................................

**VI Semester B.Sc. Degree (CBCSS – Reg./Supple./Imp.)**
**Examination, May 2018**
**CORE COURSE IN COMPUTER SCIENCE**
**6B15CSC : Computer Organization**
**(2014 Admn. Onwards)**

Time : 3 Hours                                                            Max. Marks: 40

## SECTION – A

1. **One** word answer :                                                    (8×0.5=4)

   a) To reduce the memory access time we generally make use of _____

   b) The ALU makes use of _____ to store the intermediate results.

   c) The addressing mode which makes use of in-direction pointers is _____

   d) The addressing mode, where you directly specify the operand value is _____

   e) When performing a looping operation, the instruction gets stored in the _____

   f) The sign followed by the string of digits in floating point representation is called as _____

   g) The computer architecture aimed at reducing the time of execution of instructions is _____

   h) DMA transfers are performed by control circuits known as _____

## SECTION – B

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

2. What is Execution time/Response time ?

3. What are various types of operations required for instructions ?

4. What are the most common fields of an instruction format ?

5. When can you say that a number is normalized ?

P.T.O.

6. What is a port ? What are the different types of port available ?

7. What are the registers generally contained in a processor ?

8. What is control word ?

9. What are the major functions of input output system ?

10. Differentiate between synchronous and asynchronous bus.

11. Explain Input Output Processor (IOP).

## SECTION – C

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

12. What are condition code flags ? Explain the commonly used flags.

13. Explain stack organization.

14. Explain in detail the different mappings used for cache memory.

15. What is asynchronous data transfer ? Explain in detail.

16. What do you mean by multiprocessors ? Explain its characteristics.

17. Explain the Add/Subtract rule for floating point numbers with example.

## SECTION – D

Answer **any two** of the following questions : (2×5=10)

18. Explain memory organization (Memory Hierarchy) in detail with figure.

19. Explain multiprocessors and multi computers with help of figures. Explain the difference between them.

20. What do you mean by micro programmed control ? Draw and explain micro programmed control unit.

21. Explain in detail about interrupts and types of interrupts.

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