

S.B. Roll No.....

COMPUTER ARCHITECTURE

4th Exam/Comp/IT/CSc/3621/0162/2962/Nov' 2016

Duration: 3 Hrs.

M. Marks: 75

SECTION –A

Q1. Do as directed:

10x1.5=15

- a. An EPROM can be programmed, erased and reprogrammed by the user with an EPROM programming instrument.
- b. Each track on a disk is also split into smaller parts called _____.
- c. _____ connects I/O devices with Computer.
- d. A _____ is a combination of flip-flops.
- e. A computer cannot “boot” if it does not have _____.
- f. BIOS is an acronym for _____.
- g. Gray code is weighted code.
- h. A kilobyte also referred as K, is equal to _____ bytes.
- i. RAM is a non volatile memory.
- j. Two I/O interfacing techniques are _____ and _____.

SECTION-B

Q2. Attempt any Five Questions:-

5x6=30

1. What is 2's complement? Explain with example.
2. Differentiate between RISC and CISC.
3. What is memory segmentation? Explain with example.
4. Define interrupts. Explain internal and external interrupts.
5. Explain DMA controller?
6. Explain any two addressing mode with example.
7. What is instruction cycle?
8. Differentiate between Static and Dynamic RAM?

SECTION-C

Q3. Attempt any Three Questions: -

3x10=30

1. Explain the concept of virtual memory in detail?
2. Why memory hierarchy is needed in a computer system?
3. Explain data transfer techniques in details.
4. Discuss the various addressing modes with example?.
5. Write addition algorithm in detail.