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CAIIS-N 238 B-2K13
B.C.A. IIIrd Semester Degree Examination
Computer Science
(Computer Architecture)
Paper - BCA-3.6
(New)

Time : 3 Hours

Maximum Marks : 80

Section - A

1. Answer **all** questions. Each question carries **2** marks. **(10×2=20)**
- a) Define computer architecture.
 - b) What is computer structure and computer function.
 - c) Explain the term unit of transfer.
 - d) What is hard failure?
 - e) Differentiate between SDRAM and RDRAM?
 - f) Define the terms a non-movable disk and removable disk with an example.
 - g) What are the advantages of CD-ROM.
 - h) Name three techniques for performing I/O
 - i) What are the disadvantages of interrupt -driven I/O.
 - j) What is CISC and RISC.

Section - B

- Answer any **four** questions. Each question carries **5** marks. **(4×5=20)**
2. Explain the main structural components of a Computer.
 3. Explain basic instruction cycle.
 4. List the key characteristics of computer memory system.
 5. Briefly explain the major types of semiconductor memory.
 6. Draw and explain the block diagram of an I/O module structure.
 7. Discuss the physical characteristics of disk system.

Section - C

Answer any **four** questions. Each question carries **10** marks.

(4×10=40)

8. Describe the bus interconnection scheme.
 9. Explain the elements of cache design.
 10. Draw and explain 256KB and 1MB memory organisation.
 11. Write a note on DMA.
 12. Describe the important characteristics of CISC and RISC processor.
 13. Draw the block diagram of PPI and Explain.
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