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Computer architecture deals with the way how hardware components

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are connected together. Computer organization is concerned with the structure and behaviour of a computer system. Computer organization is the realization of computer architecture.

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1. Architecture describes what the computer does. Organization describes how it does it. 2. Computer Architecture deals with functional behavior of computer system. Computer Organization deals with structural relationship. 3. In above figure, its clear that it deals with high-level design issue. Page 22/38

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the structure and behavior of computer as seen by the user. instruction formats, the instruction set and techniques for addressing memory.

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Computer organization deals with the hardware components of a computer system, which Page 25/38

include I/O devices, the central processing unit, storage and primary memory devices. By Notably, many people find it difficult distinguishing computer organization from computer architecture, because they are significantly related to each other.

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components making up a computer system and the semantics or meaning of the Ire By operations that guide its function. As such, the computer architecture governs the design of a family of computers and defines the logical interface that is targeted by programming languages and their compilers. Page 31/38

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