

CSETUBE - Xclusive Xpectations

CS2253 - COMPUTER ORGANIZATION AND ARCHITECTURE

UNIT - I BASIC STRUCTURE OF COMPUTER

- 1. What do you mean by addressing modes? Explain various addressing modes with the help of examples.
- 2. Draw and explain the block diagram of a simple computer with five functional units.
- 3. What is RISC? Explain with proper example.

UNIT- II

Basic Processing Unit

- 1. What is meant by microprogramming? Draw and explain the micro programmed control unit.
- 2. What is meant by hardwired control? Draw and explain typical hardwire control unit.
- 3. Explain in detail about nano programming and list out its benefits.

UNIT-III Pipelining

- Draw and explain the modified three-bus structure of the processor suitable for four stage pipelined execution. How this structure is suitable to provide fourstage pipelined execution?
- 2. State and explain the different types of hazards that can occur in a pipeline.
- 3. Draw and explain the structure of a superscalar processor. Also explain the flow of instruction execution in it.

UNIT-IV

Memory System

- 1. Draw and explain the various types of secondary storage devices.
- 2. Define cache memory. Explain the mapping process followed in cache memory. Also discuss the relative advantages and disadvantages of the mapping techniques used.
- 3. What is virtual memory? Why is it necessary to implement virtual memory? Explain the virtual memory address translation.

UNIT-V I/O ORGANIZATION

- 1. What is DMA? Explain the block diagram of DMA .Also describe how DMA is used to transfer data from peripherals.
- 2. Explain the features of USB,PCI,SCSI bus.

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