

# 18 Lecture - CS501

## Important Mcqs

### 1. What is pipelining?

- a) A technique to increase the size of memory
- b) A technique to increase the processing speed of a CPU
- c) A technique to increase the number of input/output devices

Answer: b) A technique to increase the processing speed of a CPU

### What is the purpose of pipelining?

- a) To decrease the processing speed of a CPU
- b) To increase the processing speed of a CPU
- c) To increase the size of the memory

Answer: b) To increase the processing speed of a CPU

### Which of the following is a benefit of pipelining?

- a) Decreased throughput
- b) Increased idle time
- c) Increased efficiency

Answer: c) Increased efficiency

### What is a pipeline stage?

- a) A specific step in the pipelining process
- b) A specific step in the memory access process
- c) A specific step in the input/output process

Answer: a) A specific step in the pipelining process

### How does pipelining work?

- a) By dividing the processing of an instruction into smaller sequential stages
- b) By increasing the size of the memory
- c) By increasing the number of input/output devices

Answer: a) By dividing the processing of an instruction into smaller sequential stages

### What is the output of one stage in the pipeline used for?

- a) As the input for the next stage
- b) To increase the size of the memory
- c) To increase the number of input/output devices

Answer: a) As the input for the next stage

### What is a pipeline hazard?

- a) A delay in the pipeline caused by an instruction that depends on a previous instruction
- b) A delay in the pipeline caused by a hardware failure
- c) A delay in the pipeline caused by a software error

Answer: a) A delay in the pipeline caused by an instruction that depends on a previous instruction

### What is a pipeline stall?

- a) A delay in the pipeline caused by a hardware failure

- b) A delay in the pipeline caused by a software error
- c) A delay in the pipeline caused by the pipeline hazard

**Answer: c) A delay in the pipeline caused by the pipeline hazard**

**Which of the following is a disadvantage of pipelining?**

- a) Increased efficiency
- b) Increased complexity
- c) Decreased throughput

**Answer: b) Increased complexity**

**What is the main goal of pipelining?**

- a) To decrease the processing speed of a CPU
- b) To increase the processing speed of a CPU
- c) To decrease the number of input/output devices

**Answer: b) To increase the processing speed of a CPU**