

9 Lecture - CS401

Important Mcqs

1. Which of the following statements is true about hardware interrupts?

- a) They are generated by software instructions.
- b) They are triggered by hardware events.
- c) They are used for system calls.
- d) They are non-maskable interrupts.

Answer: b) They are triggered by hardware events.

Which of the following is an example of a hardware interrupt?

- a) A system call
- b) A software exception
- c) A timer expiration
- d) A user input

Answer: c) A timer expiration

Which of the following is responsible for handling hardware interrupts?

- a) The CPU
- b) The operating system
- c) The interrupt controller
- d) The device driver

Answer: b) The operating system

Which of the following is used to prioritize hardware interrupts?

- a) The CPU
- b) The interrupt controller
- c) The device driver
- d) The operating system

Answer: b) The interrupt controller

Which of the following statements is true about non-maskable interrupts?

- a) They can be disabled by software.
- b) They are triggered by external devices.
- c) They are used for critical events that cannot be ignored.
- d) They can be handled by interrupt chaining.

Answer: c) They are used for critical events that cannot be ignored.

Which of the following is an example of a non-maskable interrupt?

- a) A keyboard input
- b) A mouse input
- c) A power failure
- d) A network error

Answer: c) A power failure

Which of the following is responsible for minimizing interrupt latency?

- a) The CPU

- b) The operating system
- c) The interrupt controller
- d) The device driver

Answer: c) The interrupt controller

Which of the following techniques is used to handle multiple interrupts of the same type?

- a) Interrupt masking
- b) Interrupt priority
- c) Interrupt chaining
- d) Interrupt polling

Answer: c) Interrupt chaining

Which of the following statements is true about interrupt chaining?

- a) It is used to handle multiple interrupts of different types.
- b) It is used to handle multiple interrupts of the same type.
- c) It is used to disable hardware interrupts.
- d) It is used to enable hardware interrupts.

Answer: b) It is used to handle multiple interrupts of the same type.

Which of the following is an example of a device that generates multiple interrupts?

- a) A printer
- b) A keyboard
- c) A timer
- d) A network card

Answer: d) A network card