

# 3 Lecture - CS304

## Important Mcqs

1. **What is abstraction?**

- A) A process of creating detailed representations of an object
- B) A process of simplifying complex ideas by removing unnecessary details
- C) A process of defining precise specifications of a system
- D) A process of optimizing code for performance

**Answer: B) A process of simplifying complex ideas by removing unnecessary details**

**Which field does abstraction play a crucial role in?**

- A) Mathematics
- B) Computer science
- C) Art
- D) All of the above

**Answer: D) All of the above**

**In computer science, what does abstraction refer to?**

- A) A process of hiding implementation details while exposing essential functionality
- B) A process of creating complex algorithms
- C) A process of testing software for bugs
- D) A process of designing user interfaces

**Answer: A) A process of hiding implementation details while exposing essential functionality**

**What is the benefit of abstraction in computer science?**

- A) More efficient and maintainable software systems
- B) More complex and difficult to understand software systems
- C) Faster software development
- D) Higher quality software systems

**Answer: A) More efficient and maintainable software systems**

**Which art form utilizes abstraction to represent the essence of a subject?**

- A) Realism
- B) Impressionism
- C) Abstract expressionism
- D) Surrealism

**Answer: C) Abstract expressionism**

**What is the cognitive process involved in abstraction?**

- A) Creating detailed representations of an object
- B) Simplifying complex ideas by removing unnecessary details
- C) Analyzing complex systems
- D) Memorizing information

**Answer: B) Simplifying complex ideas by removing unnecessary details**

**Which of the following is an example of abstraction in mathematics?**

- A) Using variables to represent unknown values in equations

- B) Solving complex equations without simplification
- C) Graphing equations without labeling the axes
- D) Using only whole numbers in calculations

**Answer: A) Using variables to represent unknown values in equations**

**What is the purpose of abstraction in philosophy?**

- A) To understand the nature of reality
- B) To create complex arguments
- C) To study the history of philosophy
- D) To memorize philosophical theories

**Answer: A) To understand the nature of reality**

**Which of the following is NOT a benefit of abstraction?**

- A) More efficient and maintainable software systems
- B) Simplified understanding of complex systems
- C) Increased complexity of systems
- D) Improved problem-solving ability

**Answer: C) Increased complexity of systems**

**Which term refers to the level of abstraction that focuses on the essential features of a system?**

- A) High-level abstraction
- B) Low-level abstraction
- C) Mid-level abstraction
- D) No abstraction

**Answer: A) High-level abstraction**