

# 38 Lecture - CS302

## Important Mcqs

### 1. What is an equation in mathematics?

- a) A statement that asserts the inequality of two expressions
- b) A statement that asserts the equality of two expressions
- c) A statement that asserts the product of two expressions
- d) A statement that asserts the sum of two expressions

Answer: b) A statement that asserts the equality of two expressions

### What is the symbol used to separate the left-hand side and right-hand side of an equation?

- a) Plus sign (+)
- b) Minus sign (-)
- c) Equals sign (=)
- d) Multiplication sign (\*)

Answer: c) Equals sign (=)

### What is the purpose of an equation in mathematics?

- a) To assert the inequality of two expressions
- b) To assert the equality of two expressions
- c) To assert the sum of two expressions
- d) To assert the product of two expressions

Answer: b) To assert the equality of two expressions

### How are equations used in physics?

- a) To calculate the area of a triangle
- b) To describe relationships between variables
- c) To solve quadratic equations
- d) To calculate the circumference of a circle

Answer: b) To describe relationships between variables

### What is the process of solving an equation called?

- a) Factoring
- b) Integration
- c) Derivation
- d) Solving

Answer: d) Solving

### Which of the following is not an equation?

- a)  $2x + 3 = 7$
- b)  $3y - 5 > 2$
- c)  $5a - 2 = 3a + 4$
- d)  $4x - 8 = 12$

Answer: b)  $3y - 5 > 2$

### Which type of equation involves two variables?

- a) Linear equation

- b) Quadratic equation
- c) Simultaneous equation
- d) Cubic equation

**Answer: c) Simultaneous equation**

**What is the solution of an equation?**

- a) The value of the variable that makes both sides of the equation equal
- b) The value of the variable that makes both sides of the equation unequal
- c) The sum of the left-hand side and the right-hand side of the equation
- d) The product of the left-hand side and the right-hand side of the equation

**Answer: a) The value of the variable that makes both sides of the equation equal**

**What is an open sentence in mathematics?**

- a) An equation that is true for all values of the variables
- b) An equation that is true for some values of the variables
- c) An equation that is false for all values of the variables
- d) An equation that is false for some values of the variables

**Answer: b) An equation that is true for some values of the variables**

**What is the order of operations used in solving an equation?**

- a) Parentheses, exponents, multiplication and division (from left to right), addition and subtraction (from left to right)
- b) Addition and subtraction (from left to right), multiplication and division (from left to right), parentheses, exponents
- c) Exponents, parentheses, multiplication and division (from left to right), addition and subtraction (from left to right)
- d) Multiplication and division (from left to right), addition and subtraction (from left to right), exponents, parentheses

**Answer: a) Parentheses, exponents, multiplication and division (from left to right), addition and subtraction (from left to right)**