## **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 = 7b) 3y - 5 > 2c) 5a - 2 = 3a + 4d) 4x - 8 = 12Answer: 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)