

Multiple Choice (10 Marks)

Select the correct answer for each question. Each question is worth 1 mark.

1. Which of the following is an irrational number?
A) $\sqrt{16}$
B) 3.14
C) $\sqrt{7}$
D) $\frac{2}{3}$
2. Between which two consecutive integers does $\sqrt{45}$ lie?
A) 5 and 6
B) 6 and 7
C) 7 and 8
D) 40 and 50
3. What is the value of $\sqrt{\frac{49}{100}}$?
A) 0.7
B) 0.07
C) 7.1
D) $\frac{7}{50}$
4. Which statement is always true about a rational number?
A) It cannot be written as a terminating decimal.
B) It can be expressed as a fraction $\frac{a}{b}$ where $b \neq 0$.
C) It must be a positive whole number.
D) Its square root is always a whole number.
5. Simplify the expression: $\sqrt{3} * \sqrt{12}$.
A) $\sqrt{15}$
B) 6
C) 36
D) $3\sqrt{2}$
6. Express the repeating decimal $(0.555...)$ as a fraction in simplest form.
A) $\frac{5}{10}$
B) $\frac{1}{2}$

- C) $\frac{5}{9}$
D) $\frac{5}{99}$

7. What is the value of $(-\sqrt{5})^2$
A) -5
B) 5
C) -25
D) 25
8. Which number is a non-terminating and non-repeating decimal?
A) π
B) 0.333...
C) $\frac{1}{8}$
D) $\sqrt{1.44}$
9. Evaluate $\sqrt{64} - \sqrt[3]{27}$
A) 5
B) 37
C) 8
D) 11
10. If $x^2 = 121$, what are the possible values of x?
A) 11 only
B) -11 only
C) 11 and -11
D) 60.5 and -60.5