

MULTIPLE CHOICE QUESTIONS FOR PRACTICE

MATHEMATICS- QUADRATIC EQUATIONS

STUDENT NAME :

SCHOOL NAME:

The four alternative /choices are given for each incomplete statement or a question. Choose the correct one.

- The standard form of an adfected quadratic equation is.....
 A) $ax^2+bx+c=0$ B) $ax^2-bx+c=0$ C) $ax^2+bx-c=0$ D) $ax^2+c-bx=0$
- The standard form of a quadratic equation $2x^2-3=7x$ is.....
 A) $2x^2-3=7x$ B) $2x^2-3-7x=0$ C) $2x^2-7x-3=0$ D) $-2x^2-3+7x=0$
- Which one of the following equation is not a quadratic equation?
 A) $3x^2+4x-7=0$ B) $m^2-5m-8=0$ C) $2b^2+b-6=0$ D) $0x^2-2x-9=0$
- Which one of the following equation is a quadratic equation ?
 A) $4x^2-6x+6=0$ B) $3x-8y=1$ C) $5x^3+5x-7=0$ D) $3x^2+9=7$
- The highest power appearing in a quadratic equation $2x^2=4x-3$ is.....
 A)1 B) 2 C) 3 D)4
- The constant term in a quadratic equation $7x^2-4x=5$ is.....
 A)7 B) -4 C) 5 D) -5
- The polynomial equation $x(x+1)+8=(x+2)(x-2)$ is aequation.
 A)Linear equation C) cubic equation
 B)Quadratic equation D) Simultaneous equation
- Which one of the following value satisfies the equation $x^2-3x+2=0$?
 A)1 B) 2 C) -1 D) -3
- The maximum number of roots of a quadratic equation $ax^2+bx+c=0$ is.....
 A)2 B) 3 C) 1 D) 4
- The roots of a quadratic equation $x^2+bx+c=0$ is given by
 A) $\frac{-b \pm \sqrt{b^2-4ac}}{2a}$ B) $-b \pm \frac{\sqrt{b^2-4ac}}{2a}$ C) $\frac{-b \pm \sqrt{b^2-4ac}}{2a}$ D) $\frac{-b \pm \sqrt{b^2-4c}}{2}$
- If $(y-2)$ and $(y+3)$ are the factors of the trinomial y^2+y-6 then the roots of a quadratic equation $y^2+y-6=0$ areand
 A) -2+3 B) 2,-3 C) -2,-3 D) 2,3
- If -2 is the one of the roots of a quadratic equation $x^2+3x+2=0$ then the other root is..
 A) 2 B) -1 C) +1 D) 3

13. The roots of a quadratic equation $m^2+m-12=0$ are and

- A) 4, 3 B) 4,-3 C) -4,-3 D) -4,3

14. The values of x which satisfies the equation $6x^2-x-2=0$ are ----and ---

- A) $\frac{2}{3}, \frac{1}{2}$ B) $-\frac{2}{3}, \frac{1}{2}$ C) $\frac{2}{3}, -\frac{1}{2}$ D) $-\frac{2}{3}, -\frac{1}{2}$

15. Which one of the following quadratic equation has -2 and +5 as a roots ?

- A) $x^2-3x-10=0$ B) $x^2+3x-10=0$ C) $x^2-3x+10=0$ D) $x^2+3x+10=0$

16. If in a quadratic equation $ax^2+bx+c=0$, $c=0$ then the roots are and

- A) $0, -\frac{b}{a}$ B) $0, \frac{b}{a}$ C) $a, -\frac{b}{a}$ D) $b, -\frac{b}{a}$

17. For what condition, the roots of a quadratic equation $ax^2+bx+c=0$ are real and distinct.

- A) $b^2-4ac=0$ B) $b^2-4ac>0$ C) $b^2-4ac<0$ D) $b^2-4ac=-2$

18. The nature of roots of a quadratic equation $ax^2+bx+c=0$ when the $b^2-4ac<0$.

- A) Real and Equal B) Real and Unequal
C) Real and Distinct D) Non-Real and Imaginary

19. The quadratic equation whose discriminant is p^2-4qr is

- A) $px^2+qx+r=0$ C) $qx^2+px+r=0$
B) $px^2+rx+q=0$ D) $rx^2+qx+p=0$

20. The value of discriminant of a quadratic equation $2x^2=4x-3$ is

- A) -8 B) 8 C) 40 D) -40

21. The equation $9x^2+kx+4=0$ has two equal roots then the value of k is

- A) ± 12 B) ± 13 C) ± 11 D) ± 10

22. If the discriminant of a quadratic equation is equal to zero then the roots of a quadratic equation are

- A) Real and Distinct B) Imaginary (No real roots)
C) Real and Equal D) Irrational and Distinct

23. The discriminant of a quadratic equation $3x^2+8x-2=0$ is

- A) 40 B) 68 C) 88 D) 30

24. The discriminant of a quadratic equation $x^2+bx+c=0$ is

- A) b^2-4ac B) b^2-4c C) $b-4ac$ D) b^2-4a

25. The roots of a quadratic equation $ax^2+bx+c=0$ are not distinct when

- A) $b^2-4ac>0$ B) $b^2-4ac<0$ C) $b^2-4ac=0$ D) None of these.