Class – X   **MCQ's (Quadratic Equation)**   **Mathematics**

1. In the equation $11 = y^2 + 11k - 5$. For what value of k will to get real roots?
   (a) 5.5   (b) 0
   (c) 1   (d) -1

2. The roots of the equation $x^2 - 2\sqrt{3}x + 3 = 0$ are:
   (a) *rational and unreal*   (b) *irrational and unequal*
   (c) *rational and equal*   (d) *real and equal*

3. Let $ax^2 + bx + c = 0$, where a, b, c are all positive, then both the roots of the equation:
   (a) *are real and positive*   (b) *are real and negative*
   (c) *are irrational*   (d) *none of these*

4. If the roots of the equation $kx^2 + 2kx - 5 = 0$ are equal, then the value of k is:
   (a) $\frac{1}{5}$ (b) -5
   (c) 1   (d) 5

5. The perimeter of a rea²ctangle is $48m$ & its area is $135m^2$. The sides of a parallelogram are:
   (a) $15m, 9m$ (b) $19m, 5m$
   (c) $45m, 3m$ (d) $27m, 5m$

6. The set values of k, for which $x^2 + 5kx + 16 = 0$ has no real root is:
   (a) $k \geq \frac{8}{5}$ (b) $k \leq \frac{8}{5}$
   (c) $-\frac{8}{5} < k < \frac{8}{5}$ (d) $-8 < k < 8$

7. If $x^2 - xy = 0$. Which of the following is correct conclusion:
   (a) $x = 0$ (b) $x = y$
   (c) $x^2 = y$ (d) *either $x = 0$ or $x = y$*

8. The only real root(s) of the equation $28x^3 - 9x^2 + 2 = 0$ is(are):
   (a) $\frac{1}{4}$ (b) $-\frac{1}{4}$
   (c) $-\frac{1}{4}$ and $\left(1 + 3\sqrt{2}\right)$ (d) $1 + 3\sqrt{2}$

9. Find the minimum value of $x^2 - x + 7$ for real values of x:
   (a) 8   (b) 4
   (c) 3   (d) 2

10. The roots of the equation $2(a^2 + b^2)x^2 + 2(a + b)x + 1 = 0$ are always:
    (a) *real and equal*   (b) *real and irrational*
    (c) *real and rational*   (d) *none of these*

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ANSWERS:

1. b	**6.** *c*
2. d	**7.** *d*
3. *b*	**8.** *b*
4. d	**9.** *c*
5. *a*	**10.** *d*

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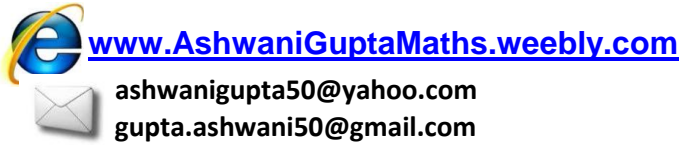
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