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## CBSE Class 10- Mathematics: Chapter - 4 Quadratic Equations Part 6

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## 1 Marks Question

Question 1:
Which of the following is quadratic equation?
(a) $x^{3}-2 x-\sqrt{5}-x=0$
(b) $3 x^{2}-5 x+9=x^{2}-7 x+3$
(c) $\left(x+\frac{1}{x}\right)^{2}=3\left(x+\frac{1}{x}\right)+4$
(d) $x^{3}+x+3=0$

Answer:
(b) $3 x^{2}-5 x+9=x^{2}-7 x+3$

Question 2:
Factor of $a^{2} x^{2}-3 a b x+2 b^{2}=0$ is
(a) $\frac{2 b}{a}, \frac{b}{a}$
(b) $\frac{3 b}{a}, \frac{a}{b}$
(c) $\frac{b}{a}, \frac{a}{b}$
(d) $\frac{a}{b}, \frac{a}{b}$

Answer:
(a) $\frac{2 b}{a}, \frac{b}{a}$

Question 3:
Which of the following have real root
(a) $2 x^{2}+x-1=0$
(b) $x^{2}+x+1=0$
(c) $x^{2}-6 x+6=0$
(d) $2 x^{2}+15 x+30=0$

## Answer:

(c) $x^{2}-6 x+6=0$

## Question 4:

Solve for $: x=\frac{1}{2-\frac{1}{2-\frac{1}{2-x}}}$
(a) $x=2$
(b) $x=-1$
(c) $x=-1$
(d) $x=3$

Answer:
(b) $x=-1$

Question 5:
Solve by factorization $\sqrt{3} x^{2}+10 x+7 \sqrt{3}=0$
(a) $x=-\sqrt{3},-\frac{7}{\sqrt{3}}$
(b) $x=-\sqrt{3}, \frac{7}{\sqrt{3}}$
(c) $x=2, \frac{1}{2}$
(d) $\pm 3$

Answer:
(a) $x=-\sqrt{3},-\frac{7}{\sqrt{3}}$

## Question 6:

The quadratic equation whose roots are and -3 is
(a) $x^{2}-9=0$
(b) $x^{2}-3 x-3=0$
(c) $x^{2}-2 x+2=0$
(d) $x^{2}+9=0$

## Answer:

(a) $x^{2}-9=0$

## Question 7:

Discriminant of $-x^{2}+\frac{1}{2} x+\frac{1}{2}=0$
(a) $-\frac{1}{2}, 1$
(b) $\frac{1}{2}, 1$
(c) $\frac{-1}{2},-1$
(d) $\frac{1}{2}, \frac{-1}{2}$

Answer:
(a) $-\frac{1}{2}, 1$

Question 8:
For equal root, $k x(x-2)+6=0$, value of is
(a) $k=6$
(b) $k=3$
(c) $k=2$
(d) $k=8$

Answer:
(a) $k=6$

