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ONLINE TEST-07, (28-04-2020)  **MATHEMATICS TOPIC**:  **QUADRATIC EQUATION**

1. The roots of the equation  are

(a)  (b) *a*, 2*a*

(c)  (d) None of these

1. If then 

(a) 3 (b) 2

(c) 1 (d) None of these

1. Let one root of  where  are integers be , then the other root is

(a)  (b) 3

(c)  (d) None of these

1. The number of real solutions of the equation –  are

(a) 1 (b) 2

(c) 3 (d) 4

1. The roots of the given equation  are

(a)  (b) 

(c)  (d) 

1. How many roots the equation have

(a) One (b) Two

(c) Infinite (d) None

1. The value of  is

(a)  (b) 

(c)  (d) None of these

1. Let and  be the roots of the equation  The equation whose roots are  is

(a)  (b) 

(c)  (d) 

1. If  are distinct roots of the equation  then

(a)  (b) 

(c)  (d) 

1. If  then 

(a) 4 (b) 6

(c) 3 (d) 2

1. The value of is

(a) –1 (b) 1

(c) 2 (d) 3

1. If the roots of the equations 

and  be real, then

(a)  (b) 

(c)  (d) 

1. If one of the roots of the equation  and  is coincident, then the numerical value of  is

(a) 0 (b) – 1

(c) 2 (d) 5

1. The value of for which has equal and real roots are

(a) –9 and –7 (b) 9 and 7

(c) –9 and 7 (d) 9 and –7

1. The roots of the quadratic equation , are

(a) Irrational (b) Rational

(c) Imaginary (d) None of these

1. If the roots of the equation  are real, then

(a)  (b) 

(c)  (d) 

1. Roots of  are real and distinct if

(a)  (b) 

(c)  (d) 

1. If the equation  has equal roots, then *l*, *m* and *n* satisfy

(a)  (b) 

(c)  (d) 

1. If one root of  is reciprocal of the other, then =

(a) 0 (b) 5

(c) 1/6 (d) 6

1. If  and  are the roots of the equation , then =

(a)  (b) 

(c)  (d) 

1. If the roots of the equation be and , then the roots of the equation  are

(a)  (b) 

(c)  (d) None of these

1. If  is a root of the equation , where *p* and *q* are real, then =

(a)  (b) 

(c) (4, 7) (d) 

1. If  and  are the roots of the equation  then 

(a) *b* (b) – *b*

(c)  (d) 

1. If  are the roots of  then the roots of  shall be

(a) *a, c* (b) 

(c)  (d) 

1. The quadratic equation with real coefficients whose one root is, will be

(a)  (b) 

(c)  (d) 

1. If the sum of the roots of the equation  is three times their difference, then which one of the following is true

(a)  (b) 

(c)  (d) 

1. The sum of the roots of a equation is 2 and sum of their cubes is 98, then the equation is

(a)  (b) 

(c)  (d) 

1. If roots of  are , then =

(a) 6/7 (b) 7/6

(c) 7/10 (d) 8/9

1. If the roots of  are two consecutive integers, then  is

(a) 1 (b) 2

(c) 3 (d) 4

1. . If , then what is the value of *p*

(a) 1 (b) 2

(c) 3 (d) – 2