



Creative Multiplication Choice Questions

1. What are the co-ordinates of the intersecting point of the graph of the equation $x^2 - 5x + 4 = 0$ and x-axis?
[Ctg.B.- 20]

- a) $(-4, 0)$
- b) $(-1, 0)$
- c) $(4, -1)$
- d) $(4, 0)$

2. How many times will the area of whole surface of cube be increased when the length of its each side is doubled?
[S.B.- 19]

- a) 3 times
- b) 4 times
- c) 5 times
- d) 6 times

Answer to the questions No. (3 – 4) based on the following information:

The squaring difference of two positive integer is 49 and product is 600.

3. What is the number? [B.B.- 19]

- a) 1 and 600
- b) 2 and 150
- c) -25 and 24
- d) 25 and 24

4. Squaring sum of the two numbers is?

[B.B.- 19]

- a) 576
- b) 625
- c) 649
- d) 1201

5. The graph of a function $y = x^2 - 4x - 1$ is - [C.B.- 17]

- i. Paraboloid shape.
- ii. Symmetric point may be found about x-axis.
- iii. The value of the function will be maximum or minimum at certain point.

Which one of the following is correct?

- a) i and ii
- b) i and iii
- c) ii and iii
- d) i, ii and iii

6. What is the value of b in equation $ax^2 + bx + c = 0$ while comparing with the equation $x^2 - x - 12 = 0$?

- a) 0
- b) 1
- c) -1
- d) 3

7. Which one is the solution of the equation $16^x = 4^{x+1}$?

- a) 2
- b) 1
- c) 4
- d) 3

8. A root of the equation $x^2 - x - 13 = 0$ is:

- a) $\frac{-1 + \sqrt{51}}{2}$
- b) $\frac{-1 - \sqrt{51}}{2}$
- c) $\frac{1 + \sqrt{-51}}{2}$
- d) $\frac{1 + \sqrt{53}}{2}$

9. A root of the equation $y^x = 9$ and $y^2 = 3^x$ is:

- a) $(-3, -3)$
- b) $(2, \frac{1}{3})$
- c) $(-2, \frac{1}{3})$
- d) $(-2, 3)$

According to the information given below answer questions No. (10 – 11):

The difference of the squares of two positive whole numbers is 11 and the product of the numbers is 30.

10. What are the numbers?

- a) 1 and 30
- b) 2 and 15
- c) 5 and 6
- d) 5 and -6

11. What is the sum of the squares of the numbers?

- a) 1
- b) 5
- c) 61
- d) $\sqrt{41}$

12. The sum of a number and its multiplicative inverse is 6. The formation of equation is-

- i. $x + \frac{1}{x} = 6$
- ii. $x^2 + 1 = 6x$
- iii. $x^2 - 6x - 1 = 0$

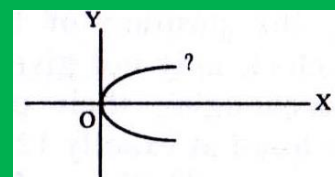
Which one of the following is correct?

- a) i and ii
- b) i and iii
- c) ii and iii
- d) i, ii and iii

13. Which one is the solution of $2^{px-1} = 2^{2px-2}$?

- a) $\frac{p}{2}$
- b) P
- c) $-\frac{p}{2}$
- d) $\frac{1}{p}$

14.



Find the equation of the graph?

- a) $x^2 - 4y + 1 = 0$

- b) $y^2 - 3x = 0$
 c) $x^2 + y^2 - 9 = 0$
 d) $x^2 + y^2 + 4x = 0$

15. At which point the graph of the equation $x^2 - 4x - 5 = 0$ intersects the x-axis?

- a) (1, 0), (5, 0)
 b) (-1, 0), (-5, 0)
 c) (1, 0), (-5, 0)
 d) (-1, 0), (5, 0)

16. What are the co-ordinates of the intersecting point of the graph of the equation $x^2 - 5x + 4 = 0$ and x-axis?

- a) (0, 1), (4, 0)
 b) (-1, 0), (-4, 0)
 c) (1, 0), (4, 0)
 d) (-1, 0), (0, -4)

17. If the discriminant of the equation $bx^2 + 3x + 1 = 0$ is 20 then what is the value of b?

- a) $\frac{-11}{4}$ b) $\frac{-10}{4}$
 c) 3 d) 5

18. Comparing the equation $x^2 - x - 12 = 0$ with $ax^2 + bx + c = 0$ then value of b?

- a) -1 b) 0
 c) 1 d) 3

19. The graph of a function $y = x^2 - x - 12$ then -

- i. Intersects two points of x-axis.
 ii. Intersects y-axis at (0, -12).
 iii. $x = -12$ is one of the solutions of $y = 0$.

Which one of the following is correct?

- a) i and ii b) i and iii
 c) ii and iii d) i, ii and iii

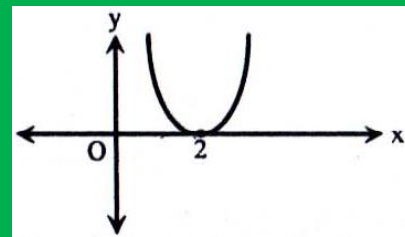
20.

- i. The graph shows the equation of parabola.
 ii. The equation of the graph is $x^2 = ay$.
 iii. The equation of the graph is $x = ay^2$.

Which one of the following is correct?

- a) i and ii b) ii and iii
 c) i and iii d) i, ii and iii

21.



The graph -

- i. Represents a quadratic equation.
 ii. Touches x-axis at (0, 2) point.
 iii. Expresses positive side of the y-axis.

Which one of the following is correct?

- a) i and ii b) i and iii
 c) ii and iii d) i, ii and iii

22. If the roots of the quadratic equation $x^2 - 5x + 4 = 0$ are 1 and 4 -

- i. The graph of the equation intersects x-axis at (1, 0) and (4, 0) points.
 ii. The discriminant of the equation is 9.
 iii. The discriminant of the equation is ± 3 .

Which one of the following is correct?

- a) i and ii b) i and iii
 c) ii and iii d) i, ii and iii

Answer to the questions No. (23 - 25) on the basis of the information given below:

$y = (2x - 1)^2$ is a function of x.

23. In which point the function touches the x-axis in the graph?

- a) (0, 0) b) $(\frac{1}{2}, 0)$
 c) (1, 0) d) (2, 0)

24. In which point the function intersects y-axis?

- a) (0, 0) b) $\frac{1}{2}$
 c) (0, 1) d) (0, 2)

25. Which is the graph of the function?

