

10 CBSE MATHEMATICS STANDARD

CODE 30/1/2

21.03.2023

1 In what ratio x axis divide line joining (3,6) and (-12,-3)?

Ans : option (D) 2 : 1

2 Given fig. PQ is tangent. If angle AOB = 95 then what is measure of angle ABQ?

Ans : option (A) 47.5

3 If $2 \tan A = 3$ then find $4 \sin A + 3 \cos A / 4 \sin A - 3 \cos A$

Ans : option (C) 3

4 In a group of 20 people, 5 cannot swim. Find probability that a person can swim?

Ans : Option (A) $\frac{3}{4}$

5 Find modal class of the distribution:

Ans : Option (C) 30-40

6 The CSA of cone having height 24 and radius 7 is

Ans : Option (C) 550

7 The end points of diameter of a circle is (2,40 and (-3,-1). Find radius of circle.

Ans : Option (C) $\frac{5\sqrt{2}}{2}$

8 Which of the following is a quadratic polynomial with zeros $\frac{5}{3}$ and 0?

Ans : Option (A) $3x(3x-5)$

9 The graph of $y = p(x)$ polynomial is given. The number of zeros is

Ans : Option (B) 1

10 The value of k for which equations $kx = y + 2$ and $6x = 2y + 3$ has infinite many solutions,

Ans: Option (B) does not exist

For Private Circulations only

11 If a, b, c form an AP then the value of $a - 2b - c$ is

Ans : Option (C) $-2a-4d$

12 If the value of each statistical data is increased by 3, then the mean of data

Ans: Option (B) increases by 3

13 Probability of happening an event is p and non happening of event is q, then

Ans: Option (A) $p + q = 1$

14 A girl calculates probability of her winning first prize is 0.08. If 6000 tickets are sold how many tickets has she bought?

Ans : Option (C) 480

15 If α and β are zeros of $p(x) = x^2 + x - 1$, then $\frac{1}{\alpha} + \frac{1}{\beta} =$

Ans : Option (A) 1

16 The least positive value of k for which $2x^2 + kx - 4 = 0$ has rational roots is

Ans : Option (B) 2

17 $5/8 \sec^2 60 - \tan^2 60 + \cos^2 45 =$

Ans : Option (C) 0

18 CSA of cylinder of height 5 cm is 94.23 cm^2 . Radius of cylinder is

Ans : Option (B) 3 cm

ASSERTION REASON TYPE

19 Assertion (A) The perimeter of triangle ABC is a rational number.

Reason (R) The sum of squares of two rational numbers is always rational

Ans : Option (D)

20 Assertion (A) Point P(0,2) is the point of intersection of y axis with line $3x + 2y = 4$

Reason (R) The distance of point P(0,2) from x axis is 2 units.

Ans : Option (B)