



Name

Roll No

1- ہر سوال کے سامنے چار دائرے دئے گئے ہیں، صرف صحیح جواب والا دائرہ بھریں۔

2- دائروں کو ٹینڈ (بھرنے) کے لئے نیچے یا کالے رنگ کا مارکر استعمال کریں۔

3- جواب میں ایک سے زائد دائرے بھرنے سے جواب غلط تصور ہوگا۔

Time Allowed: 20 Minutes

SECTION - A

Marks : 15

For the quadratic equation

- 1 $ax^2 + bx + c = 0$, If $b^2 - 4ac = 0$ then roots are.....
 Unequal Imaginary Real Equal
-
- 2 If A and B are disjoint sets then....
 $A \cap B = \phi$ $A \cup B = \phi$ $A \cap B = A$ $A \cup B = A$
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- 3 A chord is 5 cm from the center of circle of radius 13 cm. The length of the chord is.....
 6 cm 12 cm 24 cm 30 cm
-
- 4 In a circle two chords are equidistant from the center of a circle, the chords are.....
 Congruent Not congruent Parallel Non-parallel
-
- 5 How many tangents can be drawn from a point outside the circle?
 1 2 3 4
-
- 6 If "f" is a function from A to B, then "f" is onto function if:
 Range $f \neq A$ Dom $f = A$ Range $f = B$ Range $f \neq B$
-
- 7 The formula $\frac{\sum x}{n}$ determines:
 Arithmetic mean Median Mode Geometric mean
-
- 8 $1 + \tan^2 \theta = \dots\dots\dots$
 $\sin^2 \theta$ $\cos^2 \theta$ $\operatorname{cosec}^2 \theta$ $\sec^2 \theta$
-
- 9 The most frequent value in the data is called its..... 6.594
 Mean Median Mode Geometric mean
-
- 10 $45^\circ = \dots\dots\dots$ radians.
 $\frac{\pi}{3}$ $\frac{\pi}{4}$ $\frac{\pi}{6}$ $\frac{\pi}{2}$
-
- 11 If $x^2 - 3x - 4 = 0$, then the solution are.....
 $x = 4, -1$ $x = -4, 1$ $x = 4, 1$ $x = -4, -1$
-
- 12 Which of the given values of x are the roots of equation $x^2 - 8x + 15 = 0$
 $x = 1$ or $x = 7$ $x = 2$ or $x = 4$ $x = -2$ or $x = 4$ $x = 3$ or $x = 5$
-
- 13 If $m \propto \frac{1}{n}$, then:
 $m = kn$ $n = km$ $\frac{m}{n} = k$ $mn = k$
-
- 14 If $2a + 1 : 21 :: 4 : 7$, then
 $a = \frac{13}{2}$ $a = \frac{11}{2}$ $a = 10$ $a = \frac{9}{2}$
-
- 15 If P(x) and Q(x) are two polynomials then $\frac{P(x)}{Q(x)}$, $Q(x) \neq 0$ is:
 Rational fraction Irrational fraction Proper fraction Improper fraction