



IMPORTANT MCQ'S FOR SECTION A

IX MATHEMATICS

1 A number in the form of $a + bi$ is called----- number.

- a Real b. Complex c Imaginary d. Whole

2 $\frac{1}{4} = 0.25$ is the ----- decimal fraction.

- a. Terminating b. Non terminating
c Non terminating recurring d Non terminating nonrecurring

3 The multiplicative inverse of $\sqrt{5}$ is -----

- a- $\sqrt{5}$ b $\frac{1}{\sqrt{5}}$ c. 5 d. $-\frac{1}{\sqrt{5}}$

4 The conjugate of $-3 + 5i$ is -----

- a $-3i + 3$ b $3 + 5i$ c. $-3 - 5i$ d. None of these

5 In $y = \sqrt{x}$ then y is called -----

- a Index b Radicand c Surd d power

6 π is considered as----- number.

- a. Whole number b. Rational number c Irrational number d real number

7 The product of the two complex number $(a + bi)$ and $(c + di)$ is -----

- a $(a + c, c + d)$ b $(a - c, c - d)$ c $(ac - bd, ad + bc)$ d $(\frac{ac-bd}{c^2+d^2}, \frac{bc+ad}{c^2+d^2})$



8 In $2i(3 - i)$ the real part is -----

- a. $2 - 6i$ b. $2 + 6i$ c. $-2 + 6i$ d. $-2 - 6i$

9 $\sqrt{-2} \times \overline{\sqrt{-2}} =$ -----

- a. -2 b. 2 c. -2 d. $2i$

10 The union of rational and irrational numbers is called -----

- a. Real number b. Whole number c. Rational number d. Natural number

11. The logarithm is invented by-----

- a. Mussa Al Khwarzimi b. Al Beroni c. Yaquooob Al Khudi d. Ibnul Hasan

12 Logarithm to the base 10 is called -----

- a. Common logarithm b. Natural logarithm c. Anti logarithm d. None of these

13 $\log(mn) =$ -----

- a. $\log m^n$ b. $\log m - \log n$ c. $\log m + \log n$ d. $\log m^{\frac{n}{m}}$

14 The exponential form of $\log_a y = x$ is -----

- a. $a^x = y$ b. $x^y = a$ c. $a^x = y$ d. $y^x = a$

15 The Integral part of the logarithm is called -----

- a. Characteristics b. Mantissa c. Exponent d. Base

16 If $\log_{10} x = 4$ then $x =$ -----

- a. 500 b. 100 c. 1000 d. 10000

17 If $\log 3.0 = 0.4471$ then number of digits in 3^{19} are -----

- a. 4 b. 6 c. 8 d. 10

18 $3 \log 2 - 2 \log 3 =$ -----

- a. $\log 2 - \log 3$ b. $\log \left(\frac{9}{8} \right)$ c. $\log \left(\frac{8}{9} \right)$ d. $\log 6$



19 $3^5 = 243$ can be written in logarithm form as -----

- a $\log_3 5 = 243$ b $\log_3 243 = 5$ c $\log_5 243 = 3$ d. $\log_5 3 = 243$

20 The characteristics of 54.58 is -----

- a 0 b 1 c 3 d 3

21 Every poly nominal is -----

- a. An irrational expression b. a rational expression c. Sentence d. None of these

22 If $x = 1$ and $y = 1$ then value of $x - y + x y$ is -----

- a. 0 b 1 c -1 d. 2

23 The polynomial having two terms is called -----

- a. Monomial b Binomial. c. Trinomial d. Multinomial

24 If $a + b = 2$ and $a - b = 2$ then value of $a^2 + b^2 =$ -----

- a. 2 b $\frac{2}{3}$ c. 1 d 4

25 $(a + b)^3 = a^3 + b^3 +$ -----

- a. $3ab(a + b)$ b $3ab(a - b)$ c - $3ab(a + b)$ d. - $3ab(a - b)$

26 $\sqrt[7]{128} =$ -----

- a. $2\sqrt{2}$ b $4\sqrt{2}$ c 2 d 4

27 $\frac{1}{x^2+2}$ is a ----- Expression

- a. Polynomial b Rational c Irrational d surd

28 An algebraic expression which can be written as in the form of $\frac{p(x)}{q(x)}$ is called -----

- a. Polynomial expression b. Rational expression c. Irrational expression d. Surd

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29 The degree of $x^2y^2z^2 + 3$ is -----

- a 1 b 2 c. 6 d. 8

30 $3xy^{-2}$ is -----expression

- a. Polynomial b . Rational c. Irrational d Surd

31 There are ----- methods to find out the H.C.F

- a. One b Two c Three d None of these

32 The H. C F of $4x^5y^2$ and $12x^3y^4$ is -----

- a. $4x^3y^2$ b $48x^5y^2$ c $2x^5y^4$ d $64x^5y^2$

33 The square root of $a^2 - 2ab + b^2$ is - -----

- a $(a + b)^2$ b. $(a + b)$ c. $(a - b)^2$ d. $(a - b)$

34 L.M.C \times H.C.F of the two polynomials = -----

- a Product of two polynomial b. Division of polynomial
c Subtraction of two polynomials d . Addition of two polynomials

35 L . C . M of $(2y + 3z)^5$ and $(2y + 3z)^3$ is-----

- a. $(2y + 3z)$ b. $(2y + 3z)^3$ c. $(2y + 3z)^2$ d. $(2y + 3z)^5$

36 The H.C.F of $x^3 - y^3$ and $x^2 - y^2$ is =-----

- a. $x^2 - y^2$ b. $x^2 + y^2$ c. $x - y$ d. $x + y$

37 L. C. M of $9x^2$ and $15x$ is -----

- a. $24x^2$ b $45x^2$ c $135x^3$ d. $135x^2$

38 HCF of 45 and 90 is -----

- a. 5 b. 15 c 45 d. 90

39 The square root of $49x^2 + 126xy + 81y^2$ is -----

- a. $(7x - 9y)$ b $(7x + 9y)$ c $(7x - 9y)^2$ d. $(7x + 9y)^2$

40 In equation $2x + y = 6$ if x- coordinate is 1 then y- coordinate will be-----

- a. 2 b. 4 c. 6 d 8

40 If a is any real number then order pair $(a, 0)$ lies in / on -----



a. 1st quadrant

b. 2nd quadrant

c. x- axis

d. y- axis

41The Co-ordinates of origin are -----

a. (1,0)

b. (0 , 1)

c. (0 , 0)

d. None of these



- 42 In order pair (a , b) , where b is called -----
a. x-coordinate b. y- coordinate c. xy coordinate d None of these
- 43 The equation $2x - y = 7$ with respect to its degree is called ----- equation
a. Linear b. Quadratic c. Rational d. Irrational
- 44 Co-ordinate axes are mutually -----
a Perpendicular b. Intersecting at 45° c Intersecting at 30° d. Parallel
- 45 The order pair (0 , -4) lies in / on -----
a. 1st quadrant b 2nd quadrant c. x- axis d. y- axis
- 46 If $(x + 3) (x - 2) = 0$ then solution set is -----
a { 3 , -2 } b. { -3 , 2 } c { -3, -2 } d { 3 , 2 }
- 47 The equation Involving radical expression of variables are called ----- equation
a Linear b. Radical equation c Quadratic. d. Rational
- 48 An equation in the form of $2x^4 - 3x^3 + 7x^2 - 3x - 2$ is called ----- equation.
a Reciprocal b Radical c. Exponential d. None of these
- 49 The quadratic formula for $ax^2 + bx + c = 0$ -----
a $\frac{-b - \sqrt{b^2 - 4ac}}{2a}$ b $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ c $\frac{-b \pm \sqrt{b^2 + 4ac}}{2a}$ d $\frac{b \pm \sqrt{b^2 - 4ac}}{2a}$



50. In the quadratic equation the highest exponent of variable is -----
a 1 b 2 c 3 d.4

51 The statements which are accepted without proof are called-----

- a. Axioms b Fundamental agreement c Ply fair axiom d Postulates

52 How many acute angles are there ----- in an acute angled triangle?

- a. One b Two c. Three d. Not more then 2

53 If two adjacent angles are equal in measure then their common arm is called-----of angle.

- a. Bisector b. Exterior c. Vertical d. Interior

54 A quadrilateral having one pair of opposite side is parallel is called -----

- a. Trapezoid b Parallelogram c. Rhombus d. Square

55 An angle measure less than 90° is called ----- angle

- a. Acute b Obtuse c Right d Reflex

56 The triangle having all three sides are congruent is called -----

- a. Isosceles b. Scalene c. Equilateral d Obtuse

57 The complementary angle of 80° is -----

- a. 10° b 20° c 90° d. 100°

58 A triangle having two sides are congruent is called -----

- a. Scalene b. Isosceles c Equilateral d. Right angle

59 The points that lie on the same straight line are called -----

- a. Collinear b Non collinear c. Co incident d. None of these

60 If the two supplementary angles are equal in measure then each is called -----

- a. Acute b Obtuse c. Complementary d Right

61 If two opposite sides are congruent and parallel, it is a -----

- a Square b Parallelogram. c. Rhombus d. Quadrilateral

62 The diagonal of square are -----to each other.

- a. Perpendicular b Congruent c Non congruent d. Both a and c

63 If the sum of the measure of $\angle a$ and $\angle c$ of a parallelogram ABCD is 130° then $m\angle B =$ ----

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- a. 25° b 50° c. 65° d. None of these



- 64 In an parallelogram opposite sides are -----
a. Congruent b Equidistance c Parallel d Perpendicular
- 65 The diagonal of the parallelogram divide in to-----congruent triangle.
a. 2 b 3 c 4 d None of these
- 66 The line which join the vertex and passes perpendicularly to the opposite side is called-----
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a. Altitude b Diameter c Median d. None of these
- 67 The medians of the triangle are -----
a. Parallel b congruent c. Bisect d. None of these
- 68 In any parallelogram Corresponding angles are -----
a. Equal b. Parallel c. Right d. None of these
- 69 In a parallelogram the diagonal ----- each other.
a Divide b. Bisect c. Perpendicular d. None of these
- 70 The line segment joining vertex of a triangle to the midpoint of opposite side is called -----
a. Orthocenter b Median c Altitude d. Hypogenous
- 71 The line segment which divides the line segment into two equal parts is called -----
a. Bisector of line b. Congruent of line c Right bisector of line d None of these
- 72 A line which divides the angle into two equal angles is called -----
a. Bisector b Angle bisector c. Perpendicular line d. Parallel line
- 73 There are -----acute angles in an acute angled triangle.
a. One b Two c. Three d. None of these
- 74 Right bisector cuts the line segment into two equal parts at -----
a. 45° b 90° c 180° d. 360°
- 75 The line joining the vertex and passes perpendicularly to the opposite side of triangle
iscalled -----
Median b Altitude c. Radius d. None of these
- 76 If the perpendicular distance between the two line is the same , then the lines are -----
to each other.
a. Perpendicular to each other b Parallel to each other
c Intersecting to each other d None of these
- 77 A line perpendicular from a vertex of a triangle to its opposite side is called -----
a Median b Perpendicular bisector c. Angle bisector d. Altitude



78 The area of the-----is equal to the product of base and height.

- a Square b Parallelogram c Rectangle d. Rhombus

79 Triangle on the same base and of same altitude are equal in-----

- a Area b Perimeter c. Length d. All of these

80 If the two parallelograms of equal areas have equal bases their altitudes are-----

- a.Equal b. not equal c. half d. None of these



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