Professional Online Academy Vu Topper RM

MTH101-Calculus And Analytical Geometry

Update MCQ'S Mid Term

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بری صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

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Question No:1 **(Marks:1)** **Vu-Topper RM**

If f is a function that is continuous at each point of its domain and if f has an inverse, then the inverse of f is also continuous at each point of its domain

A. True

B. False

Question No:2 **(Marks:1)** **Vu-Topper RM**

d(tanx)/dx=……

A. Square of secx

B. Square of Cosx

Question No:3 **(Marks:1)** **Vu-Topper RM**

If f (x) = 1 / x, then which of the following is true about it.

A. None of these.

B. Its derivative with respect to x is (- x^2).

C. Its derivative with respect to x is (-1 /x^2).

D. Its derivative with respect to x is (1 / x^2).

Question No:4 **(Marks:1)** **Vu-Topper RM**

If f(x)=4x+5 , then f ‘ (1) will be…….

A. 8

B. 4

C. 3

D. 2

Question No:5 **(Marks:1)** **Vu-Topper RM**

If the function f and g are continuous at c, then f.g is …… at c.

A. continuous

B. discontinuous

Question No:6 **(Marks:1)** **Vu-Topper RM**

A differentiable function is always continuous.

A. True

B. False

Question No:7 **(Marks:1)** **Vu-Topper RM**

Question: is the derivative of $y = \sin\left(\{\cos\left(x \right)\} \right)$?

Options:

A. - {\text{ }}sin\left(x \right)

B. {\text{ }}cos\left(x \right)

C. - {\text{ }}cos\left({sin\left(x \right)} \right)

D. -{\text{ }}sin\left(x \right){\text{ }}cos\left({cos\left(x \right)} \right)

Question No:8 **(Marks:1)** **Vu-Topper RM**

What is the derivative of 101?

A. 101

B. None of these

C. 0

D. 100

Question No:9 **(Marks:1)** **Vu-Topper RM**

What is the value of $\cos x / x$; as x approaches to pi.?

A. - 1/pi

B. 0

C. pi/2

D. - pi

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Question No:10 **(Marks:1)** **Vu-Topper RM**

What is the derivative of $y = \tan (x + 5)$?

A. $\sec (x + 5)$

B. $- \sec (x + 5)$

C. $- {\sec ^2}(x + 5)$

D. ${\sec ^2}(x + 5)$

Question No:11 **(Marks:1)** **Vu-Topper RM**

What{\text{ }}is{\text{ }}the{\text{ }}derivative{\text{ }}$\tan (x^2 + x^3)$?

A. $(3x^2 + 2x)\sec ^2 (x^2 + x^3)$

B. None of these

C. $(2x^3 + 3x)\cos ec^2 (x^2 + x^3)$

D. $(2x^3 + 3x)\sec ^2 (x^2 + x^3)$

Question No:12 **(Marks:1)** **Vu-Topper RM**

The angle that is formed between the horizontal line and the line of sight is known as _____.

A. angle of Elevation

B. angle of Depression

C. angle of Incidence

D. angle of Inclination

Question No:13 **(Marks:1)** **Vu-Topper RM**

Let\,f(x) = 2x + 1.\,If\,\,{\lim _{x \to 3}}f(x) = 7,\,which\,statement\,\,is\,\,true?

Options:

A. For\,every\,\varepsilon > 0,\,there\,exists\,\,\delta > 0\,such\,that\,\,|f(x) - 7| < \varepsilon \,implies\,0 < |x - 3| < \delta .

B. For\,every\,\delta > 0,\,there\,exists\,\,\varepsilon > 0\,such\,that\,\,|f(x) - 7| < \varepsilon \,implies\,0 < |x - 3| < \delta .
C. For\,every\,\delta > 0,\,there\,exists\,\,\varepsilon > 0\,such\,that\,0 < |x - 3| < \delta \,implies\,|f(x) - 7| < \varepsilon .
D. For\,every\,\varepsilon > 0,\,there\,exists\,\,\delta > 0\,such\,that\,0 < |x - 3| < \delta \,implies\,|f(x) - 7| < \varepsilon .

Question No:14 **(Marks:1)** **Vu-Topper RM**
|x-3| < 1 implies.....
A. 2 < x < 4
B. -2 < x < -4
C. -4 < x < 4
D. x-3 < 1

Question No:15 **(Marks:1)** **Vu-Topper RM**
On the straight line, the tangent at any point coincide with line -------
A. some where
B. none of these
C. no where
D. every where

Question No:16 **(Marks:1)** **Vu-Topper RM**
Let f(x) = {x^5} + {x^4} + {x^3} + {x^2} + x + 1 be a polynomial function. Which of the following statements regarding f(x) is correct ?
A. f(x) is continuous for all real numbers
B. f(x) is continuous only for positive real numbers
C. f(x) is discontinuous only for negative real numbers
D. f(x) is discontinuous for all real numbers.

Question No:17 **(Marks:1)** **Vu-Topper RM**

If for any positive number e(epsilon) we can find d (delta) such that| (3x-5) - 1| < e ,if x satisfies

0< |x-2| < d

Then f(x) =……

A. x-2

B. 3x-5- 1

C. 3x-5

D. None of these

Question No:18 **(Marks:1)** **Vu-Topper RM**

In calculus, what is the chain rule used for?

A. Differentiating composite functions

B. Evaluating limits

C. Finding anti-derivatives

D. Solving integrals

Question No:19 **(Marks:1)** **Vu-Topper RM**

If f\left(x \right) = x + 1 and g\left(x \right) = {x^2} - 2 are continuous for all real numbers then the difference of f(x) and g(x) will be

A. Discontinues for only positive real numbers

B. Continuous for all real Numbers

C. Continuous only for positive real numbers

D. Discontinuous for all real numbers

Question No:20 **(Marks:1)** **Vu-Topper RM**

Derivative of a constant function is _____.

A. None of these

B. 1

C. Does not exist
D. 0

Question No:21 **(Marks:1)** **Vu-Topper RM**
{\text{What}}\,{\text{is}}\,{\text{the}}\,{\text{value}}\,{\text{of}}\,\frac{d}{{dx}}{\left({ax + b} \right)^n}?\,
Options:
A. n{\left({ax + b} \right)^{n - 1}}
B. - n{\left({ax + b} \right)^{n - 1}}
C. - an{\left({ax + b} \right)^{n - 1}}
D. an{\left({ax + b} \right)^{n - 1}}

Question No:22 **(Marks:1)** **Vu-Topper RM**
The derivative of f(x) at a point is the ____ to the graph of f(x) at that point.
A. Slope of tangent line
B. Slope of Secant line

Question No:23 **(Marks:1)** **Vu-Topper RM**
|x^2-9|=…….
Options:
A. |(x-3)^2|
B. |(x+3)^2|
C. |x-3||x+3|
D. |x+3||x+3|

Question No:24 **(Marks:1)** **Vu-Topper RM**
What is the derivative of 3cot (2x)
A. None of these

B. 6cose{c^2}(2x)
C. - 3cose{c^2}(2x)
D. - 6cose{c^2}(2x)

Question No:25 (Marks:1) Vu-Topper RM
If f (x) = 1/x, then which of the following is NOT true about it
NOTE:- where x^n denotes the nth power of x .
A. It is not differentiable at x = 0
B. It has a vertical tangent at x = 0.
C. None of these
D. It does not have a vertical tangent at x = 0

Question No:26 (Marks:1) Vu-Topper RM
What is the derivative of y = {x^L} , where L is a positive integer?
Options:
A. {x^{L + 1}}
B. L\;{x^{L + 1}}
C. L\;{x^{L - 1}}
D. {x^{L - 1}}

Question No:27 (Marks:1) Vu-Topper RM
Rate of change of a quantity with respect to 'x' while varying strictly along y-axis is-------
A. Zero
B. -1
C. +1
D. Infinity

Question No:28 **(Marks:1)** **Vu-Topper RM**

\mathop {\lim }\limits_{x \to 2} f(x) = {x^3} + 3 is.....

A. 5

B. 11

C. 2

D. 3

Question No:29 **(Marks:1)** **Vu-Topper RM**

What is the derivative of y = \sqrt {2x + 1} ?

A. \frac{2}{{\sqrt {2x + 1} }}

B. \frac{1}{{\sqrt {2x + 1} }}

C. \frac{1}{{4\sqrt {2x + 1} }}

D. \frac{{\sqrt {2x + 1} }}{2}

Question No:30 **(Marks:1)** **Vu-Topper RM**

If the function f and g are continuous at c, then
f o g is …… at c.

A. Continuous

B. Discontinuous

Question No:31 **(Marks:1)** **Vu-Topper RM**

Derivative of a constant is zero.

A. False

B. True

Question No:32 **(Marks:1)** **Vu-Topper RM**

Tan(x) is discontinuous at

A. x=0

B. x=2π

C. x=π
D. x=π/2

Question No:33 **(Marks:1)** **Vu-Topper RM**
Sec(x) is discontinuous at
A. x=2π
B. x=0
C. x=π
D. x=π/2

Question No:34 **(Marks:1)** **Vu-Topper RM**
\frac{d}{{dx}}\left({f(x)g(x)} \right) = ?
Options:
A. \mathop {\lim }\limits_{h \to 0} \frac{{f(x + h) - g(x)}}{h}
B. \mathop {\lim }\limits_{h \to 0} \frac{{f(x)g(x + h) - f(x + h)g(x)}}{h}
C. \mathop {\lim }\limits_{h \to 0} \frac{{g(x + h) - f(x)}}{h}
D. \mathop {\lim }\limits_{h \to 0} \frac{{f(x + h)g(x + h) - f(x)g(x)}}{h}

Question No:35 **(Marks:1)** **Vu-Topper RM**
What is the value of cosx / x ; as x approaches to pi.?
A. - pi
B. - 1/pi
C. pi/2
D. 0

Question No:36 **(Marks:1)** **Vu-Topper RM**
Is the function f(x) = 1/(x+1) continuous at

x = 1? If not, why?
A. f is not continuous at x = 1.
B. f is continuous at x = 1

Question No:37 **(Marks:1)** **Vu-Topper RM**
To find the slope of tangent line at a particular point along a curve , you have to calculate ……
A. displacement
B. acceleration
C. average velocity
D. instantaneous velocity

Question No:38 **(Marks:1)** **Vu-Topper RM**
Slope of secant line joining points (2,3) and (3,2) is____.
A. 1
B. None of these
C. 2
D. -1

Question No:39 **(Marks:1)** **Vu-Topper RM**
What is the derivative of 3sec(x)?
A. se{c^2}(x)
B. 3Sec(x)\tan (x){\text{ }}
C. 3\ln (\sec (x) + \tan (x))
D. None of these

Question No:40 **(Marks:1)** **Vu-Topper RM**
The derivative of Sin(3x) at the x=0 is _____.
A. 2

B. -3
C. 3
D. -1

Question No:41 **(Marks:1)** **Vu-Topper RM**
\lim_{x \to 0} \left({\frac{{\sqrt {x + 20} - \sqrt {20} }}{x}} \right) is
Options:
A. -\frac{1}{{4\sqrt 5}}
B. - 4\sqrt 5
C. 4\sqrt 5
D. \frac{1}{{4\sqrt 5}}

Question No:42 **(Marks:1)** **Vu-Topper RM**
If f is continuous on a closed interval [a, b] and C is any number between f(a) and f(b), inclusive, then there is at least one number x in the interval [a, b] such that ---------
A. f(x) is not equal to C
B. f(x)>C
C. f(x) = C
D. f(x)<C

Question No:43 **(Marks:1)** **Vu-Topper RM**
Value of the derivative of g(x)=8-10Cosx at
'x = 0' is-------.
A. -8
B. 0
C. -10
D. 10

Question No:44 **(Marks:1)** **Vu-Topper RM**

{\text{The}}\,\,{\text{function}}\,\,\,\tan x = \sin x/\cos x\,\,{\text{is}}\, - - - - - .

Options:

A. {\text{continuous}}\,\,{\text{everywhere}}\,\,{\text{except}}\,\,x = 0

B. {\text{continuous}}\,\,{\text{everywhere}}

C. {\text{continuous}}\,\,{\text{everywhere}}\,\,{\text{except}}\,\,x = \pi /2

D. {\text{continuous}}\,\,{\text{everywhere}}\,\,{\text{except}}\,\,x = \pi

Question No:45 **(Marks:1)** **Vu-Topper RM**

If a function has a vertical tangent line at a specific point, what can be said about its derivative at that point?

A. The derivative is positive.

B. The derivative is negative.

C. The derivative is undefined.

D. The derivative is zero.

Question No:46 **(Marks:1)** **Vu-Topper RM**

Graph of f(x) is the same as the graph of cf(x)……vertically if c>1

A. Stretched

B. Compressed

Question No:47 **(Marks:1)** **Vu-Topper RM**

The interval (-3, 2) denote the set of all _____between -3 and 2.

A. Rational numbers

B. Real numbers

C. Integers
D. Natural numbers

Question No:48 **(Marks:1)** **Vu-Topper RM**
Which of the following is slope of a line segment joining the points (2, 5) and (-2, -1)?
A. 7 / 3
B. 3
C. 6 / 4
D. 0

Question No:49 **(Marks:1)** **Vu-Topper RM**
If two lines have same slope, say 1, then these two lines are _____
A. Parallel to y-axis
B. Parallel to x-axis
C. Perpendicular to each other
D. Parallel to each other

Question No:50 **(Marks:1)** **Vu-Topper RM**
Using the midpoint formula, what are the coordinates of the midpoint between the points A(2,4) and B(6,10)?
A. (8,16)
B. (4,7)
C. (2,6)
D. (3,7)

Question No:51 **(Marks:1)** **Vu-Topper RM**

If a line has the slope 4/7 and passes through the point (3, -2). What is the equation of the line in point-slope form?

A. y+2=4/7(x+3)
B. y-2=4/7(x-3)
C. y+2=4/7(x-3)
D. y-2=4/7(x+3)

Question No:52 **(Marks:1)** **Vu-Topper RM**

Given the equation of a circle as x +y =64, what is the center of the circle?

A. (0,0)
B. (8,8)
C. (−6, −6)
D. (3,3)

Question No:53 **(Marks:1)** **Vu-Topper RM**

The midpoint of the points A(3,5) and B(1,3) is .....?

A. (1,1)
B. (-2,-2)
C. (-1,-1)
D. (2,4)

Question No:54 **(Marks:1)** **Vu-Topper RM**

Which of the following is the standard form of the equation of a circle with a center at (2,−3) and a radius of 5 units?

A. **(x-2) +(y+3) =25**
B. x +y =5
C. (x-2) +(y-3) =5
D. x +y =25

Question No:55 **(Marks:1)** **Vu-Topper RM**

The midpoint of the points A(2, 5) and B(8, 11) is .....?

A. (2,3)
B. (3,3)
C. (6,6)
D. (5,8)

Question No:56 **(Marks:1)** **Vu-Topper RM**

Which of the following is an example of set?

A. Collection of good student in a class.
B. Collection of temperature.
C. Collection of time.
D. Collection of planets in our solar system.

Question No:57 **(Marks:1)** **Vu-Topper RM**

Which of the following point satisfies the equation: $2x + 5y = 15$?

A. (4, 2)
B. (5, 1)
C. (2, 5)
D. (1, 3)

Question No:58 **(Marks:1)** **Vu-Topper RM**

If a line has a positive slope, how does it appear in coordinate plane?

A. rising from left to right
B. falling from left to right
C. horizontal
D. vertical

Question No:59 **(Marks:1)** **Vu-Topper RM**

Which of the following is solution of equation:

$|x - 3| - 4 = 3$

A. $x = 7$

B. $x = 6$ and $x = 0$

C. $x = 10$ and $x = -4$

D. $x = 7$ and $x = 1$

Question No:60 **(Marks:1)** **Vu-Topper RM**

Graph of f(x) is the same as the graph of cf(x)……vertically if $0<c<1$

A. Compressed

B. Stretched

Question No:61 **(Marks:1)** **Vu-Topper RM**

Every real number corresponds to _____ on the co-ordinate line

A. None of these

B. A unique point

C. Infinite number of points

D. Two points (one positive and one negative)

Question No:62 **(Marks:1)** **Vu-Topper RM**

$0 / 0 =$ _____

A. 0

B. Undefined

Question No:63 **(Marks:1)** **Vu-Topper RM**

Graph of y=f(x) and y= - f(x) are reflection of one another about the ……

A. y-axis
B. x-axis

Question No:64 **(Marks:1)** **Vu-Topper RM**
If two lines are parallel and one of them has the slope 1/2. What is the slope of the other line?
A. -1
B. -2
C. 1/2
D. -1/2

Question No:65 **(Marks:1)** **Vu-Topper RM**
What is the geometric interpretation of the equation y=ax +bx+c?
A. Equation of a parabola
B. Equation of a line
C. Equation of a circle
D. Equation of a hyperbola

Question No:66 **(Marks:1)** **Vu-Topper RM**
What is the slope of a line parallel to y-axis?
A. undefined
B. -1
C. 0
D. 1

Question No:67 **(Marks:1)** **Vu-Topper RM**
Let f(x) = x − 3 and g(x) = 2x then (f + g)(x) =?
A. 3x − 3
B. 3x + 3

C. 3x − 1
D. 3x – 2

Question No:68 **(Marks:1)** **Vu-Topper RM**

Let f(x) = , which of the following is domain of f(x)? 3 x

A. (−∞ , 0) U(0, ∞)
B. (0 , ∞)
C. (−∞ , 0)
D. (−∞ , ∞)

Question No:69 **(Marks:1)** **Vu-Topper RM**

Graph of the equation y = x − 9x + 5 represents a. . . . . .

A. None of these
B. Parabola
C. Circle
D. Ellipse

Question No:70 **(Marks:1)** **Vu-Topper RM**

Which of the following is y-intercept of a line represented by equation, 5y = - 2x + 16

A. 2
B. 5
C. 16 / 5
D. 8

Question No:71 **(Marks:1)** **Vu-Topper RM**

Which of the following point satisfies the equation: y = -3x + 2

A. (2, -4)
B. (-3, 2)
C. (-1, 4)
D. (1, 4)

Question No:72 **(Marks:1)** **Vu-Topper RM**
If a line has an angle of inclination of 0 . What is its slope?

A. 0
B. 1
C. -1
D. undefined

Question No:73 **(Marks:1)** **Vu-Topper RM**
Which of the following is solution of equation: |y – 3|= 7

A. y = 3
B. Does not exist
C. y = 10 and y = -4
D. y = 7 and y = -7

Question No:74 **(Marks:1)** **Vu-Topper RM**
Which of the following is slope of a line segment joining the points (4, 3) and (-2, 3)?

A. 3
B. 1 / 7
C. 0
D. 5

Question No:75 **(Marks:1)** **Vu-Topper RM**
Which of the following describes the equation:

y = 2?

A. A point (0, 2)
B. A line parallel to y-axis
C. A line parallel to x-axis
D. A point (2, 0)

Question No:76 **(Marks:1)** **Vu-Topper RM**

If a < b , then on a coordinate line _____

A. a is to the left of b
B. a is to the right of b

Question No:77 **(Marks:1)** **Vu-Topper RM**

Which of the following is radius of a circle represented by equation : x + = 25

A. 1
B. 5
C. 25
D. none of these

Question No:78 **(Marks:1)** **Vu-Topper RM**

In order to find the area under a curve we approximate the area by using

A. Circles
B. Hexagons
C. Rectangles
D. None of these

Question No:79 **(Marks:1)** **Vu-Topper RM**

The range of the absolute function is f(x)=lxl is

A. (0, ∞)

B. $(-\infty, 0) \cup (0, \infty)$
C. $(-\infty, \infty)$
D. None of these

Question No:80 **(Marks:1)** **Vu-Topper RM**

Union of set of all rational and irrational numbers is _____

A. None of these
B. Set of real numbers
C. Set of rational munbers
D. Set of irrational numbers

Question No:81 **(Marks:1)** **Vu-Topper RM**

Square root of 2 is an example of _____

A. Irrational numbers
B. Rational numbers
C. Natural numbers
D. Integers

Question No:82 **(Marks:1)** **Vu-Topper RM**

Consider the equation $|2x - 3| = 7$. What is the solution for x?

A. x=2
B. x=3
C. x=-5
D. x=5 or x=-2

Question No:83 **(Marks:1)** **Vu-Topper RM**

If two lines are perpendicular and one of them has the slope 1/2. What is the slope of the other line?

A. 2
B. -2
C. -1/2
D. 1

Question No:84 **(Marks:1)** **Vu-Topper RM**

If a line has an angle of inclination of 45 . What is its slope?

A. -1
B. 1
C. 0
D. undefined

Question No:85 **(Marks:1)** **Vu-Topper RM**

If a line has a slope of 2/3 and passes through the point (4, 5), what is the equation of the line in point-slope form?

A. y+5=2/3(x+4)
B. y-5=2/3(x-4)
C. y+5=2/3(x-4)
D. y-5=2/3(x+4)

Question No:86 **(Marks:1)** **Vu-Topper RM**

Let f(x) = , which of the following is domain of f(x)? 1 x + 3

A. (3 , ∞)
B. (−∞ , ∞)
C. (−∞ , 3)
D. (−∞ , −3) U(−3 , ∞)

Question No:87 **(Marks:1)** **Vu-Topper RM**

The point 4 lie in the interval (-infinity, 5)

A. True

B. False

Question No:88 **(Marks:1)** **Vu-Topper RM**

For the line 2x-y-3=0, what is the slope?

A. 1/2

B. 2

C. -2

D. -1/2

Question No:89 **(Marks:1)** **Vu-Topper RM**

The number that corresponds to a point on a number line is called the _____ of the point.

A. Coordinate

B. Axes

C. Direction

D. Origin

Question No:90 **(Marks:1)** **Vu-Topper RM**

In the equation Ax +By +Dx+Ey+F=0, what does the term D represent?

A. Coefficient of x

B. Constant term

C. Coefficient of y

D. Coefficient of x

Question No:91 **(Marks:1)** **Vu-Topper RM**

|-7| + |- 4| = _____

A. ±11
B. -11
C. 11
D. Does not exist

Question No:92 **(Marks:1)** **Vu-Topper RM**
Let two lines have slope a1 and a2 respectively. If a1 = a2 then the two lines are _____
A. Perpendicular to each other
B. Parallel to y-axis
C. Parallel to x-axis
D. Parallel to each other

Question No:93 **(Marks:1)** **Vu-Topper RM**
Which of the following point satisfies the equation: x + 5y = 3
A. (0, 4)
B. (-2, 1)
C. (3, 7)
D. (2, 1)

Question No:94 **(Marks:1)** **Vu-Topper RM**
Is the graph of equation y = 4x + 3 symmetric about origin?
A. No
B. Yes

Question No:95 **(Marks:1)** **Vu-Topper RM**
Using midpoint formula, what are the co-ordinates of the midpoint between (2,1) and (−3,4)?
A. (2, 5)

B. (-3/2, 2)
C. (-1/2, 5/2)
D. (1/2, -5/2)

Question No:96 **(Marks:1)** **Vu-Topper RM**
If two lines are parallel and one of them has the slope 2/3. What is the slope of the other line?

A. 2/3
B. -3/2
C. -1
D. 3/2

Question No:97 **(Marks:1)** **Vu-Topper RM**
The graph of the quadratic equation y=ax +bx+c is a .....

A. Circle
B. Hyperbola
C. Line
D. Parabola

Question No:98 **(Marks:1)** **Vu-Topper RM**
Which of the following is distance between the points (2, 1) and (1, 1)?

A. -1
B. Square root of (13)
C. (1, 0)
D. 1

Question No:99 **(Marks:1)** **Vu-Topper RM**
Which of the following is solution of equation:
|y|= 3

A. Does not exist
B. y = -3
C. y = 3
D. y = ±3

Question No:100 **(Marks:1)** **Vu-Topper RM**

The interval [a, b)is defined by

A. {x : a < x ⩽ b}
B. {x : a < x < b}
C. {x : a ⩽ x < b}
D. {x : a ⩽ x ⩽ b}

Question No:101 **(Marks:1)** **Vu-Topper RM**

The set {x : 1 > x > 2 } can be expressed by which of the following interval?

A. (-infinity, 1) U (2, +infinity)
B. [1, 2]
C. (1, 2)
D. (-infinity, 1] U [2, +infinity)

Question No:102 **(Marks:1)** **Vu-Topper RM**

The inequality, {(2x + 1) / x} < 1 can be simplified to which of the following?

A. (x + 1) > 0
B. (x + 1) / x > 0
C. (x + 1) < 0
D. (x + 1) / x < 0

Question No:103 **(Marks:1)** **Vu-Topper RM**

At each point of domain, the function _____

A. Is defined

B. Is infinite

Question No:104 **(Marks:1)** **Vu-Topper RM**

If a function's graph is symmetric about the y-axis, what can you conclude about the function?

A. It's even.

B. It's odd.

C. It's neither even nor odd.

D. It's both even and odd.

Question No:105 **(Marks:1)** **Vu-Topper RM**

If x−y is negative, then

A. $x = y$

B. $y < x$

C. $x < y$

D. $x > y$

Question No:106 **(Marks:1)** **Vu-Topper RM**

Which of the following is a necessary condition for a graph to display symmetry about the y-axis?

A. The function is even.

B. The function is odd.

C. It's neither even nor odd.

D. It's both even and odd.

Question No:107 **(Marks:1)** **Vu-Topper RM**

If slope of a line is zero, then ANGLE OF INCLINATION of that line is _____ degree.

A. 90
B. 0
C. 45
D. 270

Question No:108 **(Marks:1)** **Vu-Topper RM**

Suppose a and b are any two positive real numbers.
If a < b then _____

A. (1 / a) > (1 / b)
B. (1 / a) < (1 / b)

Question No:109 **(Marks:1)** **Vu-Topper RM**

A graph in the xy plane represents a function if and only if no.....intersects the graph more than once.

A. Horizontal line
B. Vertical line

Question No:110 **(Marks:1)** **Vu-Topper RM**

_____ of domain could have _____ in range.

A. Many elements , same image
B. An element , two images
C. An element , no image
D. Many elements , no image

Question No:111 **(Marks:1)** **Vu-Topper RM**

Which of the following point satisfies the equation: y = 2x - 1?

A. (-2, 1)
B. (1,3)
C. (4, 7)
D. (2,4)

Question No:112 **(Marks:1)** **Vu-Topper RM**

_____ of domain must have image in the range under the defined function.

A. Each element
B. Atleast one element
C. Not all elements
D. Any number of elements

Question No:113 **(Marks:1)** **Vu-Topper RM**

1–– √Let f(x) = 4x + 1 then

f(2) = _____

A. Not defined
B. 6
C. 9
D. 7

Question No:114 **(Marks:1)** **Vu-Topper RM**

What is the y-intercept of the line represented by the equation y=-2x+5 ?

A. (0,5)
B. (5,0)
C. (0,0)
D. (1,5)

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