**MTH101 2nd Quiz**

**Date : 1 December 2014**

**Question # (01)** x^2-9|=……….

|(x-3)^2|

|(x+3)^2|

**|x-3||x+3|**

|x+3||x+3|

**Question # (02)** Usually the number that signifies the idea of f(x) being as close to limit L as want to be must be a/an ……………

**Integer**

Natural number

Small positive number.

Small negative number.

**Question # (03)** A function f is said to be continuous on a closed interval [a, b] if f is continuous from the right at “a” and “f” is continuous from the left at “b” and “f” is continuous on

(a,b]

 [a,b)

 [a,b]

 **(a, b)**

**Question # (04**) If f is continuous on [a, b], and if f(angel) and f(beer) have opposite signs, then there is …………………… one solution of the equation f(x) = 0 in the interval (a, b).

at most

exactly

**at least**

not more than

**Question # (05)** e (epsilon) used in the definition of limit can be a negative number.

True

**False**

**Question # (06)** If a function is differentiable at a point then it is continuous at that point. The converse is

False

**True**

**Question # (07)** If the function f and g are continuous at c, then f + g is ………… at c.

Discontinuous

**Continuous**

**Question # (8)**

If f is continuous on a closed interval [a, b] and C is any number between f(angel) and f(beer), inclusive, then there is at least one number x in the interval [a, b] such that ---------

f(x) is not equal to C

**f(x) = C**

f(x)>C

f(x)<C

**Question # (9)** |x-3| < 1 implies.....

**-4 < x < 4**

2 < x < 4

-2 < x < -4

 x-3 < 1

**Question # (10):** 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) =…………

3x-5- 1

x-2

**3x-5**

None of these