**MTH101 - SOLVED Online Quiz No.2  Fall 2013**

**1.If Sin(3x^2) / 6 + C is the anti–derivative of a function f(x), then f(x) = \_\_\_\_\_\_\_\_\_\_.**

x^2 Cos(3x^2).

**x Cos(3x^2).**

x Cos(3x).

none

2.Which of the following is the integral of Sin(3x+5) with respect to x ?

-1/3[-Cos(3x+5)]

**1/3[-Cos(3x+5)]**

1/15[-Cos(3x+5)]

-Cos(3x+5)

3.If ‘n’ goes from 1 to 3 and the summation of ‘na’ = 6a, then the value of ‘a’ is ----------

**6**

-6

1

undetermined

4.If ‘n’ goes from 1 to any large ODD number then the summation of ‘(-1)^n’ = ---------

**-1**

0

1

that specific large ODD number

5.1+2+3………+t equals

n(n+1)/2

**t(t+1)/2**

n(n+1)(2n+1)/6

none

6.If definite integral of f(x)=Sinx over [a,0] is equal to ‘-2’ then the value ‘a’ is---------

pi/2

**pi**

0

-pi

7.If the definite integral of f(x)=3 over [1,x] is greater than ‘12’ then -----

x>12

x>5

**x>3**

x>1

8.If [-8,8] is subdivided into ‘16’ equally spaced subintervals, then the RIGHT end point of 13th sub-interval will be--------.

2

3

4

**5**

9.Which of the following is the integral of sin(2x)?

cos(2x)+C

2cos(2x)+C

**–(1/2)cos(2x)+C**

none

10.Sum of cubes of n-terms of a series whose nth term is ‘n’ = ---

Square of n(n+1)(2n+1)/6

Square of n(n+1)/2

**Square of (n+1)/2 (just a guess)**

Square of n(n+1)/6

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| **MTH101 Quiz No-2 Fall 2013**Area of a rectangle whose width is 5 units and length is 6 units will be …. |
| Select correct option:11 units        22 units                      |
| 30 units |
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| Time Left | 75sec(s) |  |

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| Question # 2 of 10 ( Start time: 08:59:55 PM ) | Total Marks: 1 |
| 1+2+3……….+1000 equals ------- |
| Select correct option:10003000500500None of these |
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| Time Left | 74sec(s) |  |

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| Question # 3 of 10 ( Start time: 09:01:17 PM ) | Total Marks: 1 |
| Integration of 4Cosx with respect to x is……….. |
| Select correct option:4Sinx- 4Sinx |
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| Question # 4 of 10 ( Start time: 09:02:47 PM ) | Total Marks: 1 |
| If Newton’s Method succeeded to get the approximate solution of an equation, then which of the following is NOT true about it. |
| Select correct option:The slope of the tangent line (at any approximated point) must be non zero.The tangent line (at any approximated point) is not parallel to x-axis.The sequence of approximated points not convergent to the exact solutionNone of these. |
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| Question # 5 of 10 ( Start time: 09:04:16 PM ) | Total Marks: 1 |
| Integral of (1-2x) from [0,1] is ……….. |
| Select correct option:1203 |
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| Question # 6 of 10 ( Start time: 09:05:21 PM ) | Total Marks: 1 |
| If f(x) = Cos(x) + x, then which of the following is NOT true about it. |
| Select correct option:Its anti – derivative is Sin(x) + x^2/2 + 4.Its anti – derivative is Sin(x) + x^2/2 + 6.Its anti – derivative is Sin(x) + x^2/2 + 10.Its anti – derivative is -Sin(x) + x^2/2 + 4. |
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| Question # 7 of 10 ( Start time: 09:06:54 PM ) | Total Marks: 1 |
| Integral of 5^2 is NOTE: x^n means ‘x’ to the power ‘n’ |
| Select correct option:(1/3)5^3   1025xNone of these |
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| Question # 8 of 10 ( Start time: 09:08:19 PM ) | Total Marks: 1 |
| In the indefinite integral of x(y^2) w.r.t ‘y’ , the term ….. serve to identify the independent variable in the function. |
| Select correct option:XYdyy^2 |
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| Question # 10 of 10 ( Start time: 09:11:20 PM ) | Total Marks: 1 |
| If f(x) = Sin (5x), then which of the following is NOT true about it. |
| Select correct option: Its anti – derivative can be–Cos (5x) + 3 Its anti – derivative can be–Cos (5x) / 5 + 4. Its anti – derivative can be–Cos (5x) / 5 + 6. Its anti – derivative can be–Cos (5x) / 5 + 10. |

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