Nepal college of information technology

(Unit test)

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| Level: Bachelor | Semester-I | Full Marks: 70 |
| Program : IT (Day/ Morning) | | Pass Mark: 35 |
| Course: Engineering Math-1 | | Time : 2hrs. |

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| *Candidates are required to give their answers in their own words as far as practicable.* |
| *The figures in the margin indicate full marks.* |
| *Attempt all the questions.* |

1. Integrate (2.5\*2=5)
2. 

(c)

1. Integrate (4\*5=20)
2. 
3. 
4. 
5. 
6. Show that (5\*2=10) (a)  (b) 
7. Find the reduction formula for  and Evaluate  [5]
8. Integrate  [5]
9. Integrate by summation method (2\*5=10) (a)  (c) 
10. Find the area of the region in the first quadrant that is bounded above by  and below by x-axis and the line [7]
11. Find the volume of solid generated by revolving the region bounded by  and the line below by , x=4 about the line . [8]