**DCA1105 Fundamentals of Mathematics**

**Assignment Set-I**

1. Show that the relation R in the set {1,2,3} given by R = {(1,1), (2,2), (3,3), (1,2), (2,3)} is reflexive but neither symmetric nor transitive.

2. Write the composite function f(g(x)) if

f(x) = and g(x) = 2x + 1,

f(x) = x + 1 and g(x) = + sin x

3. Evaluate the followings:

(i)

(ii)

**Assignment Set-II**

4. Find the derivative of

5. Consider the function . Determine where the function is increasing or decreasing.

6. Evaluate:

(i)

(ii)

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