**THE OPEN UNIVERSITY OF SRI LANKA**

**CERTIFICATE IN LABORATORY TECHNOLOGY PROGRAMME**

**NO BOOK TEST 2014/2015**

**PSC 1123 - BASIC MATHEMATICS AND COMPUTER SKILLS**

**DURATION: - ONE AND HALF HOURS (1 ½ HOURS)**

**Date: - 31stOctober 2014 Time: - 4.00 p.m. - 5.30 p.m.**

**Answer ALL Questions.**

1. (a) Simplify following expressions as far as possible.

 (i)  (ii)

 (b) Find the value of in the following equations.

 (i)  (ii) 

(02) (a) Prove the following identity.

 (i)  (ii) 

 (b) Let  , andandare acute angles,

 Find the value of

 (i)  (ii) (iii)

(03)Differentiate the following functions with respect to 

(i) (ii)

(ii) (iv) 

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