

Class Test 01 Set B
CSE 401 – Mathematics for Computer Science
Department of Computer Science and Engineering
University of Asia Pacific
Total Marks: 20 Time: 30 Minutes

1. Determine the maximum value of the function $F(x, y) = ax + by + cz$ and constraint is defined as $x^2 + y^2 + z^2 = 2$. Also determine the value of x, y, z . [20]

Where, $a = \text{Your ID mod } 3$

$b = \text{Your ID mod } 5$

$c = \text{Your ID mod } 7$.