## Class Test 01 Set A 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, z) = ax + by + cz and constraint is defined as  $x^2 + y^2 + z^2 = 6$ . Also determine the value of x, y, z. [20]

Where,  $a = Your ID \mod 3 + 2$ 

 $b = Your ID \mod 5 + 3$ 

c = Your ID mod 7 + 4.