Pop Quiz (Week 6) [10 mins] – 10 pts

Name:____________________________Student ID: __________________________________

Mark all the correct answers.

1) [3] Consider a color of chromaticity coordinate (0.3, 0.5) and luminance 50. The tristimulus value of
the color is given by
a) (15, 25, 10)
b) (30, 50, 20)  
c) (50, 20, 30)
d) (10, 25, 15)

2) [2] Consider two colors with chromaticity coordinate (0.4,0.3) and (0.2, 0.5). In what proportions of
intensity should they be mixed to create the color (0.3, 0.4)
a) (1/4, ¾)
b) (1/2, ½) 
c) (3/4, 2/5)
d) (1/3, 2/3)

3) [1] A cosine blending will create _______________ transition of color than linear blending.
a) More smooth  
b) Less smooth  
c) Similar

4) [2] Consider a 2D square whose center is at (2,2). The transformation to be applied to achieve a
scaling of the square by 2 in the X direction and 3 in the Y direction is given by
a) T(2,2)S(3,2)T(-2,-2)
b) T(-2,-2)S(3,2)T(2,2)  
c) T(2,2)S(2,3)T(-2,-2)
d) T(-2,-2)S(3,2)T(2,2)

5) [1] The intrinsic parameter matrix of a camera is a
a) Lower Triangular matrix  
b) Upper Triangular matrix 
c) Symmetric matrix

6) Consider a vector with direction (x,y). Its homogeneous coordinates is given by
a) (x, y, 1)  
b) (x, y, 0) 
c) (kx, ky, 0)
d) (kx, ky, 1)