Pop Quiz (Week 8) [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) [1] I changed one of the brightness and contrast control of the TV and I started seeing a overall washed out appearance with severe burning out effects of higher gray levels. What operation did I perform?
   a) Increase brightness
   b) Increase contrast
   c) Decrease brightness
   d) Decrease contrast

5) [2] In dithering application, I want to use 4 different levels of gray to generate at least 25 different levels of gray. What should be the factor by which I should give up spatial resolution is each direction.
   a) 2
   b) 3
   c) 4
   d) 5
6) [1] In image blending, the blending width to be used depends on the
   a) Size of the image
   b) **Size of the features**
   c) Shape of the blending functions