Pop Quiz (Week 5) [15 mins] – 14 pts

Name:_____________________________________________________________________

Student ID: ________________________________________________________________________________

1) [2] Consider the following two images. Their histograms are
   a) Identical
   b) Different
   c) Similar

2) [2] Consider two spectra that yield the same tristimulus values. Mark all that is true.
   a) The two spectra are identical
   b) The two spectra create the same sensation in the human eye
   c) There can be other spectra with the same tristimulus values

3) [1] Saturation defines
   a) The dominant wavelength of a color
   b) The amount of gray in a color
   c) The brightness of a color

4) [1] Global histogram stretching can create which of these artifacts.
   a) Blotchiness
   b) Burn and dodges
   c) White imbalance

5) [1] Salt and pepper noise is best handled by
   a) Self-similarity filter
   b) Box filter
   c) Median filter

6) [1] Consider colors on a ray originating at the origin of the XYZ space. These colors have same
   a) Intensity
   b) Hue
   c) Saturation
7) [2] The cumulative histogram function is a
   a) Discontinuous function
   b) Continuous function
   c) Monotonically increasing function

8) [4] Match the spectra on the right with the objects on the left.

   a) Healthy Skin
   b) Blue Sky on a Sunny Day
   c) Green Leaf
   c) White Flash Light