## Pop Quiz (Week 8) [ 15 mins] – 14 pts

Name:\_\_\_\_\_

d) Decrease contrast

Stu	ıder	nt ID:
M	ark <b>a</b>	all that apply
1)		<b>-2 = 3]</b> Consider the geometric transformations given by $x' = axy + bx + cy + d$ and $y' = exy + fx + gy + h$ . This is a
		i) Linear Transformation
		ii) Non-linear Transformation
		iii) Quadratic Transformation
		iv) Cubic Transformation
	b)	The number of correspondences required to find the parameters of this transformation are
	~,	i) 7
		ii) 6
		iii) 5
		iv) 4
2)	[2+	-4=6] Consider two colors represented in $(Y,x,y)$ notation as C1 = $(100, 0.2, 0.4)$ and C2= $(200, 0.5, 0.4)$
	0.2	d).
	a)	The tristimulus value of C1 is
		i) (100, 50, 100)
		ii) (50,100, 100)
		iii) (20, 40, 40)
		iv) (40, 20, 40)
	b)	The tristimulus value of the combination of C1 and C2 is given by
		i) (300, 550, 400)
		ii) (550, 300, 400)
		iii) (120, 80, 100)
		iv) (80, 120, 100)
3)	[1]	I changed one of the brightness and contrast control of the TV and I started seeing a overall
	wa	shed out appearance with severe burning out effects of higher gray levels. What operation did I
	per	rform?
	a)	Increase brightness
	b)	Increase contrast
	c)	Decrease brightness

4)	[3] 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
- 5) [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