

## **Digital Imaging and Photography Final Study Guide**

*What does ISO do on a digital camera?*

*How will your performance change when setting your digital camera to a higher ISO?*

*What are the advantages of Digimark to other safeguarding methods? What are other safeguarding methods?*

*Explain aperture settings. Which will have more depth of field: a setting of f16 or f4?*

*What is focal length?*

*Explain what a camera does for you when you use typical camera modes such as scenic, sports, portraits, and action?*

*One stop larger (f5.6 to f4 for example) lets in how much more light?*

*How does doubling the shutter speed, say from 1/100 to 1/200 second affects the amount of light?*

*Typical digital cameras adjust exposure to achieve an average of \_\_\_\_\_ % gray.*

*Explain bracketing*

*What are "exposure zones"?*

*What is "spot metering"?*

*What techniques can you use on your digital camera to improve its ability for "selective focus" that is, limit the camera's depth of field?*

*What is a Continuous or Burst Mode Camera Setting?*

*What are the useful differences between Direct Flash, Bounce Flash, Fill Flash, and off camera direct flash?*

*What is the advantage of 16-bit color Depth?*

*What exactly does Curves do?*

*What is an adjustment layer useful for ?*

*What is the difference between normal, overlay, and luminosity layer blending modes?*

*What is a layer mask useful for?*

*What does dodging do?*

*What does burning do?*

*Explain the differences between short lighting, broad lighting, and butterfly lighting. How might each type flatter a particular subject?*

*Generally, how does Custom White Balance work?*

*What is a double catchlight?*

*What is Bit Depth?*

*What are several ways to use Non-Destructive Photoshop Editing?*

*What are strategies for best using the Liquify tool?*

*What is PS Color Mode all about?*

*What is a Color channel?*

*Within Photoshop, what does 16-bit color actually mean?*

*What are Sources of "bad" color on digital cameras?*

*Auto Contrast preserves the overall color relationship better than Auto Levels, but Auto Levels maximizes the tonal range in each channel separately to produce a more dramatic correction.*

*What tools do you get in the Color Balance tool in PS?*

*What tools do you get in the Variations tool in PS?*

*What is unique about the Shadow/Highlight tool?*

*How would you use a Reflector panel?*

*How would you use a Diffuser panel? (or it's larger cousin, a "scrim"?)*

*What is a Hard Light?*

*What color is Fluorescent lighting? (Greenish or Low Red)*

*What imperfections is the Photoshop lens correction filter designed for?*

*Explain generally what you are doing when converting an image from color to BW using the channel mixer method.*

*What should you be certain to take with you on a trip to a foreign country in order to help you bring back great travel pictures?*

*What is a great Color Temperature?*

*Which blending mode did we use to get the Glamorous Glow effect?*

*What is the Freeze Mask for in Liquify?*

*How do we usually set aperture in macro photography?*

*What is a good Focal Length for macro photography, wide or telephoto?*

*What is more important to macro photography, closeness of the subject to the camera, or magnification?*

*What typically happens to your depth-of-focus as you move closer to the subject?*

*Which would probably give you a sharper image when you attach it to your existing lens: an extension tube or a close-up lens?*

*What is a Ringlight?*

*How much of the available depth-of-field is usually behind the object in focus, and how much is usually in front?*

*Why would you want to make sure the back of your camera is parallel to the plain in which the main subject lies?*

*How do you use PS to create a Web Page for your work?*

*How do you use the eyedroppers in the Levels or Curves to correct a color cast?*

*If you must use a built-in flash for photography, what can you do if it is too bright?*

*What do a cooler and a water spray bottle have to do with close-up photography?*

*What does the second set of sliders in the Levels dialog box do? How do we set the Output Level numbers?*

*What are two advantages of using RAW Files with PS?*

*Technically, what are several advantages to editing such things as contrast and saturation in Camera RAW, when you could do the same things with Photoshop's regular tools anyway?*

*What is the advantage of creating black and white versions of images in the RAW editor rather than in PS?*

*How many pixels do you need if your desired output size is 10" and desired output resolution is 72ppi?*

*How many pixels do you need if your desired output size is 4" and desired output resolution is 300ppi?*

*What does Image > Canvas Size do?*

*What specific kinds of distortion will the Lens Correction Filter fix?*

*Explain what is represented by a histogram. (Quantity of pixels per tonal range divided into 256 steps from black to white. Represents tonal properties of an image.)*

*What is "clipping" in a tonal range, and why do we care?*

*Explain what the three triangular sliders in the Levels tool do.*

*What is luminosity?*

*What is white balance?*

*What is the most common color profile for photography?*

*What does Match Color do when you match one image to another? When do you think it would be useful?*

*What are the characteristics of photographs that must be matched when trying to composite images?*

*What do softbox grids and honeycombs do?*

*Why might you want to try two different size softboxes on the same image?*

*Why would you want a Polarizer filter?*

*What are the basic guidelines for placing horizons in your scenic pictures?*

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*How do you use Levels to target highlight and shadow details for printing? What does this do?*

*What is "framing" in picture composition?*

*When saving an EPS version of your image, what does "preview" do?*

*What are key qualities of a product photograph?*

*What is the most important recent lighting equipment invention?*

*What are the general guidelines for softbox placement, and distance from the object to be photographed?*

*What special concerns are there when photographing white objects?*

*How do you create and best use EPS and PDF files with Photoshop?*

*How do you make an automated PDF slideshow with Bridge?*

*How do you incorporate password security on your PDF files?*

*How do you make a contact sheet with Bridge?*

*How do you make a web page of your images, complete with thumbnail links with Bridge?*

*What are the important techniques to remember when taking photographs that will be "stitched" together to form a panorama?*