

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, night portrait, beach 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?

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

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?

How can you do Photoshop editing in non-destructive ways?

What are strategies for best using the Liquify tool?

What is the Freeze Mask for in Liquify?

What is a Color Channel?

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

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

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

Describe the Variations tool in PS.

What is unique about the Shadow/Highlight tool?

How would you use a Reflector panel?

What is a Hard Light?

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 color sliders in the Black and White image adjustment tool, or in the RAW editor.

What is white balance?

What is the ideal color temperature?

What is the color temperature of overcast skies? Of typical flashes? Of dusk?

How do we judge/check white balance in an image?

If there is no identifiable white or gray in the image, how can you use the histogram's RGB mode to suggest a color correction?

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

How does Overlay do it's thing? Compare to Luminosity blend mode.

What is luminosity?

How do we usually set aperture in macro photography, larger or smaller?

What is a good focal length for macros, wide or telephoto?

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

How much of the available depth-of-field is usually behind the point of perfect 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 the eyedroppers in the Levels or Curves to correct a color cast?

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

What are five advantages of shooting RAW files?

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

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?

Explain what is represented by a histogram.
(Quantity of pixels per tonal range divided into 256 steps from black to white. Represents tonal or luminosity 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 the most recommended color profile for photography?

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

What are the steps needed to make a convincing reflection?

What are the steps needed to make a convincing shadow?

What was the secret to getting the strands of hair to be the right color, after extracting the subject?

What is "framing" in picture composition?

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

What happens if you shift the plane of the camera to match the plane of the subject, as with a tilt/shift lens?

How do you make the best use of morning, mid-day, and evening light, and of foggy or overcast light?

What kind of light increases contrast and enhances texture?

What does noise look like in an image? What causes it?

What are key qualities of a product photograph?

What is the most important lighting equipment invention for product photography?

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

How are tents used? What do they allow you to do that you cannot do with ordinary photography lights?

What special concerns are there when photographing white products?

What do softbox grids and honeycombs do?

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

What filters are recommended for outdoor digital photography?

What are two good situations to use a Polarizer filter?

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

How does setting endpoints for printing help the final image? Does it actually increase or decrease contrast?

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

What is a halftone dot?

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

How do you create PDF files with Photoshop?

What is the difference between print, press and smallest file size?

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?