

## **Final Exam: Advanced Image Processing**

**Q1: What is 3D rendering?**

**Ans:** Rendering resolution is the most important specification of the quality of an image. Furthermore, digital images are a grid of tiny colored squares called pixels. Every digital image has a dimension (or resolution), which is, a fancy way of saying a number of pixels tall by a number of pixels wide.

**Q2: Write steps to perform 3D rendering?**

**Ans:** 1. Understanding the client's vision. In order to build a model, a 3D artist needs to understand the project.

2. 3D modeling.

3. Materials and Texturing.

4. Lighting.

5. Rendering.

6. Final Delivery.

**Q3: How to do a color match in GIMP. Mention the steps.**

**Ans:** 1. Click on the layer in the Layers panel that has the image containing the color you want to match. 2. Click on the color in the image using the "Color Picker" tool. The color in the Background Color box on the Toolbox changes to match the color you have selected.

**Q4: What are filters in GIMP?**

Ans: Filters are one of the most used features for photo editing. It is a unique tool that takes an input layer or image, applies a mathematical algorithm to it, and provides a layer or image in a modified format. GIMP has various Filters such as Blur, enhance, distorts, light and Shadow, etc.

Q5: How to apply blur filter on an image using GIMP? Mention the steps.

Ans: 1. Launch GIMP and load the image you want to work from.

2. Select the "Blur/Sharpen" tool from the toolbox.

3. Hold down the left mouse button and move the brush over the that

Areas you want to blur, leaving the area you want to stay in focus.

4. Launch GIMP and open the image you want to work on.

Q6: What is HDR toning?

Ans: The HDR Toning command lets you apply the full range of HDR contrast and exposure settings to individual images. HDR toning requires flattened layers. Open a 32-, 16-, or 8-bit image in RGB or Grayscale color mode. Choose Image > Adjustments > HDR Toning.

Q7: How to create a video timeline?

Ans: :1. Arrange the Images as Layers

2. Open the Photoshop Timeline

3. Lay Out the Timeline

4. Add Tweens
5. Set Frame Duration and Looping
6. Save Your Animation

Q8: What are scripts in photoshop?

Ans: A script is a series of commands that tells Photoshop to perform one or more tasks. Photoshop CS4 supports scripts written in AppleScript, JavaScript or VBScript. Sample scripts are included in the Photoshop CS4 installer and get installed with the product.

Q9: What is batch processing in photoshop?

Ans: The Batch feature in Photoshop CS6 enables you to apply an action to a group of files. Suppose you want to make changes to a series of files. If you want to keep your original file, too, you have to remember to save each file in a new folder. Batch processing can automate tedious chores for you.

Q10: What are Droplets?

Ans: Droplet. The term droplet is a diminutive form of 'drop' – and as a guide is typically used for liquid particles of less than 500 µm diameter.

Q11: What is contact sheet II?

Ans: (Bridge) Select a folder of images or specific image files. From the Bridge menu, choose Tools > Photoshop > Contact Sheet II. Unless you select specific images, the contact sheet will include all the images currently displayed in Adobe Bridge.

Q12: Mention the steps to create a contact sheet II?

Ans: In Photoshop, go to File > Automate > Contact Sheet II. In the Source Images section of the Contact Sheet II dialog box, choose the folder that contains your images. Under Document, set the Units, Width/Height, Resolution, and Mode (color mode) for the contact sheet. If desired, select the Flatten All Layers option.

Q13: What are pre-defined scripts in photoshop?

Ans: A script is a series of commands that tells Photoshop to perform one or more tasks. Photoshop CS4 supports scripts written in AppleScript, JavaScript or VBScript. Sample scripts are included in the Photoshop CS4 installer and get installed with the product.

Q14: What is file information in photoshop?

Ans: The File Info dialog box displays camera data, caption, and copyright and authorship information that has been added to the file. Using this dialog box, you can modify or add information to files saved in Photoshop Elements. The information you add is embedded in the file using XMP (Extensible Metadata Platform).

Q15: Mention the steps to add file information in photoshop?

Ans: 1. Open an image in Photoshop.  
2. Open the File Info dialog box.  
3. Load your template.  
4. Choose an Import option.

5. Add any image-specific information.
6. Click OK.