

## MID TERM EXAM ( ADVANCE IMAGE PROCESSING)

Q1: Mention any 6 difference between GIMP and Photoshop software.

ANS :

1. GIMP is a FREE image editing software whereas Photoshop is a PAID image editing software.
2. GIMP contains fewer tools while Photoshop contains a lot of tools.
3. You cannot use GIMP to edit pictures on the smartphone while Photoshop can be used to edit pictures on the smartphone.
4. Photoshop has more capabilities than GIMP.
5. GIMP is a much smaller install, about 20x smaller than Photoshop.
6. The file you look at with GIMP won't be the same one as the file they created in Photoshop

Q2: How to export a GIMP raw file to PNG format? Write all the steps.

ANS :

1. Open the XCF file you wish to convert in GIMP.
2. Select File Export As
3. Click on Select File Type
4. Select PNG Image from the list, then select Export.
5. Adjust the settings to your liking, then select Export again.

Q3: What are smart objects? Do we have them in GIMP?

ANS :

GIMP does not (yet) support smart objects like in Photoshop (there's an open feature request about it), so the only way they could be imported would be by converting them into something else that GIMP does handle (most likely, a simple "dumb" layer, or a set of layers).

Q4: What are filters?

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 can we use filters in GIMP? Write all the steps.

ANS:

1. Apply a filter, painting tool, or color adjustment to an image or selection.
2. Choose Edit
3. Drag the slider to adjust the opacity, from 0% (transparent) to 100%
4. Choose a FILTER mode from the Mode menu.
5. Add your filter.
6. Click OK.

Q6: Differentiate between monochrome and polychrome light?

Ans :

Light made up of only one single component is called a monochromatic light eg laser beams are monochromatic. polychromatic light is light made of different colors or spectrum of rays with different wavelengths and frequencies. eg. normal sunlight is a polychromatic light.

Q7: What is HDR?

In photography and videography, HDR or high-dynamic-range imaging is the set of techniques used to reproduce a greater range of luminosity than that which is possible with standard photographic techniques. Standard techniques allow differentiation only within a certain range of brightness.

Q8: Mention any 5 tools in GIMP?

Ans:

1. Bucket Fill.
2. Pencil.
3. Paintbrush.
4. Eraser.
5. MyPaint Brush.

Q9: How can we sharpen an image in GIMP?

Ans :

Sharpening a snapshot in GIMP is quick and easy: simply select the Filters > Enhance > Sharpen command from the main menu. A “Sharpen” dialog box pops up (see Picture 3) showing a single “Sharpness” slider to control the amount of sharpening to be applied, and a thumbnail to preview the effect visually.

Q10: What are the benefits of using layers in GIMP?

Ans :

The advantage of layers is that it allows you to manipulate different components within a

graphic without affecting the other layers. You can add and delete layers, apply effects to layers, move layers around, and adjust the stacking order of the layers.