Q1 Mention any 6 difference between GIMP and Photoshop software.

Ans gimp is free and photoshop is paid

gimp

* Portability
* Light download
* Faster processing
* Customizable
* Free

Photoshop software

* . Mobile
* More tools
* Handles more color profiles
* Supports RAW and other file formats
* Non-destructive editing
* Good value for the money

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

* Ans Navigate to any RAW image file you have, highlight it, and click Open. If a funky looking window opens up with your picture in it (looks like the image above), you already have UFRAW installed. If you get a warning that you can’t open the RAW file with GIMP, you will need to install a separate RAW converter. Another free option is RAWTherapee.
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Q3: What are smart objects? Do we have them in GIMP?

* Smart Objects are layers that contain image data from raster or vector images, such as Photoshop or Illustrator files. Smart Objects preserve an image's source content with all its original characteristics, enabling you to perform nondestructive editing to the layer. In Photoshop, you can embed the contents of an image into a Photoshop document.,we don’t have in gimp

Q4: What are filters?

* A software routine that changes the appearance of an image or part of an image by altering the shades and colors of the pixels in some manner. Filters are used to increase brightness and contrast as well as to add a wide variety of textures, tones and special effects to a picture.

Q5: How can we use filters in GIMP? Write all the steps.

You can find filters in the Filter menu of the menu bar, which is at the top of the user screen. There are many Filters in the list Filter menu, and each filter of the list has several filter effects. So for that, first of all, let us create a new document or new image for this purpose. Go to the File menu of the menu bar and click on the New option of scroll down list or hit Ctrl + N button of the keyboard as short cut key.

Now set your desired parameters of New image in this dialog box of ‘Create a New Image’ and hit on the Ok button of this dialog box.

Now go to the Filter menu of the menu bar and click on it. Here is the list of the number of Filters of gimp in the scroll-down list of this menu.

Now go to the tool panel of gimp, which is on the left side of the working screen and take the Text tool from here or press the T button of the keyboard as the shortcut key of it.

Q6: Differentiate between monochrome and polychrome light?

A monochromatic object or image reflects colors in shades of limited colors or hues. Images using only shades of grey (with or without black or white) are called grayscale or black-and-white. However, scientifically speaking, monochromatic light refers to visible light of a narrow band of wavelengths ( see spectral color ).

ASRock Polychrome RGB is designed to create cool personalized lighting for every user. Besides adjusting the color, area, lighting effect and pattern on the motherboard, you are able to do more with ASRock Polychrome SYNC function, let your memory, case, fan, cooler and other components sync together to create a marvelous and colorful lighting effect

Q7: What is HDR?

* HDR stands for High Dynamic Range and refers to a technique that expresses details in content in both very bright and very dark scenes. It offers a more natural and realistic picture output even with a widened range of contrast. For example, in a very dark cave scene, HDR TVs show the appearance and color of the cave walls as well as its texture.

Q8: Mention any 5 tools in GIMP?

[Pencil](https://docs.gimp.org/2.10/en/gimp-tool-pencil.html)

[Paintbrush](https://docs.gimp.org/2.10/en/gimp-tool-paintbrush.html)

[MyPaint Brush](https://docs.gimp.org/2.10/en/gimp-tool-mypaint-brush.html)

[Eraser](https://docs.gimp.org/2.10/en/gimp-tool-eraser.html)

[Airbrush](https://docs.gimp.org/2.10/en/gimp-tool-airbrush.html)

[Ink](https://docs.gimp.org/2.10/en/gimp-tool-ink.html)

[Clone](https://docs.gimp.org/2.10/en/gimp-tool-clone.html)

[Heal](https://docs.gimp.org/2.10/en/gimp-tool-heal.html)

Q9: How can we sharpen an image in GIMP?

* Open the Layers dialog. Select the LAB image (if HSV, value) in the drop down box at the top and then click on the Channels tab. Click on the new channel button () at the bottom of the dialog to create a new channel. Name it “Sharpening Mask”. Right-click in the blurred/edges image window and Select -> All.

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

Layers allow you to stack images on top of each other, while all remain within a single image. Layers are an important part of creating images in GIMP. If you're familiar with Adobe Photoshop