



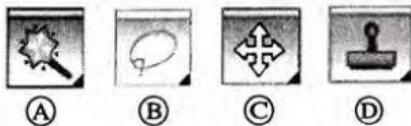


1. Consider the following table with tasks related to editing an image indicated by letters w to z given in the first column. Tools available in a typical image editing software indicated by numbers 1 to 4 are given in the second column. However, formatting tasks and tools are not in the correct order. (2016)

| | |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------|
| W - Selecting a part of the image based on its colour | 1 -  |
| X - Moving a selected part of the image | 2 -  |
| Y - Erase part of the image | 3 -  |
| Z - Change the colour of a selected part of the image | 4 -  |

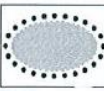



Match the tasks given in the first column to the correct tool in the second column. Write down the letter of the task and the number of the correct tool in your answer book.

2. Assume that 4 bits per pixel are used to represent a colour in a colour representation system. How many colours different from each other can be represented in this system? (2017)
3. Some icons used in graphic design software are labelled as A - D. (2017)
Identify the correct name for each tool from the list given below. Write down the tool name against labels A-D.



List: {crop tool, lasso tool, hand tool, brush tool, clone stamp tool, magic wand tool, move tool}

4. Determine whether the following statements are TRUE or FALSE. (2017)
- Number of pixels can be reduced by removing unnecessary sections in edge of images using Crop/Trim tool in graphics software.
 - Size of video files can be reduced by making the frame size smaller and reducing the resolution of image in a frame.
 - The size of audio files can be compressed by decreasing the sampling rate.
- Write down statement labels 1 -3 and write whether the above statements are TRUE or FALSE.
5. How many different colours can be represented if 10 bits per pixel (bpp) is used as colour depth in an image?
6. Choosing from the two words given within parentheses, select the suitable word that should be used to fill in each blank of the following statements labelled A - D. In your answer, write only the statement label and the selected word for the blank. (2019)
- A tiny illuminated dot of white, black, or any other colour, which is displayed on a computer screen is called a (bitmap, pixel).
 - In (raster, vector) graphics, the images are made up as a collection of lines.
 - (Lossy, Lossless) compression reduces the quality of the image.
 - (GIF, JPEG) is an example for a lossless file format.
7. The following table shows some of the formatting tools of the GIMP software. (2020)

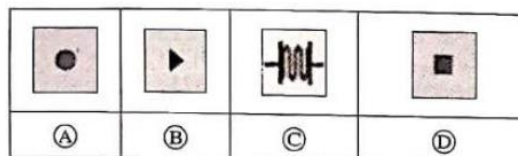
| | | | | |
|-----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Icon of the formatting tool |  |  |  |  |
| Icon Number | ① | ② | ③ | ④ |

Identify the suitable description for each of the icons 1 - 4 from the description list labelled A - D given below. Write down each icon number in the above table and its matching description label in the icon number → description label format.

Description List: { A - Draws free form selections,
B - Selects the required area as a circular or elliptical region,
C - Create paths to select shapes, D - Paints hard-edged lines }

8. The following table shows some of the icons labelled A - D of the Audacity audio editing software. Identify the suitable description for each of the icons A – D from the description list numbered 1 - 6. (2021)

Write down each icon label and its corresponding description number in label → number format.



| Description | Trim Audio | Record | Select | Stop | Skip to End | Play |
|-------------|------------|--------|--------|------|-------------|------|
| Number | 1 | 2 | 3 | 4 | 5 | 6 |

9. Consider the following statements labelled P - S and the two words given against each statement within square brackets. Write down the statement label and the appropriate word corresponding to the blank in each of the statements in the label → word format. (2021)

P - The quality of a given digital image is determined by the [ppm, dpi] value.

Q - [RGB, CMYK] primary colour model is widely used in computer screens.

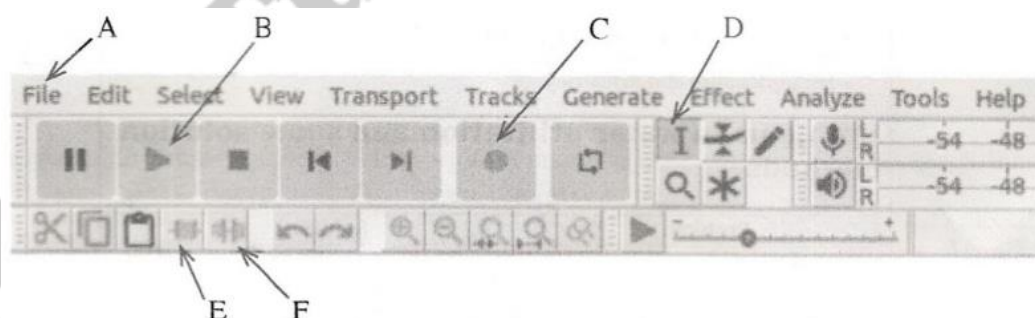
R - Image files such as JPEG and TIFF that are compressed using [lossy, lossless] compression facilitates fast downloading from the Internet.

S - [Vector, Raster] images can be created using software such as Adobe Photoshop and GIMP.

10. Compared to raster files, vector files are more suitable to store images like institution logos that frequently need resizing. Explain the reason for it. (2022)

11. Assume that you recorded an original song and stored it as an audio file. The file consists of two silent portions, one before the actual song begins and the other after the song ended. You want to remove those two silent portions using Audacity. (2022)

A part of the Audacity interface is shown below.



- Explain how you would use the interface options selecting from those labeled A-F to remove the two silent portions describe above.
 - Write down the label of the interface option that you will use to play your modified file.
12. Assume that you are creating a video with Windows Movie-maker. (2022)
- What is the importance of the timeline stage in the interface?
 - List three features that you could add to your video through the software.