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**400 LEVEL**

ANSWERS

1. What is colour harmony? Discuss why colour harmony is important in HCI.

\*Colour harmony refers to the property that certain aesthetically pleasing color combinations have, harmony can be defined as a pleasing arrangement of parts, whether it be music, poetry or colour. In visual experiences, harmony is something that is pleasing to the eye. Therefore colour harmony delivers visual interest and a sense of order thereby making the user interact better with the system.

\*Colour harmony is important in human computer interaction because a better understanding of colours will go a long way in helping different users both young and old grasp and interact with the system better.

1. Explain the following using examples:
2. Components of Colour

-Hue- Hue is what most people think of when using the term ‘color.’ It corresponds to its position in the spectrum. Examples of hues are: red, orange, yellow, green, blue and violet. In scientific terms, hue is the spectral wavelength composition of a color that produces the perception of being red, yellow, blue, and so on.

### - Value or Intensity- Value is the relative lightness or darkness of a color. This is what you see when you take a black and white photograph. Each tube color has a different value as shown in this chart.

### - Saturation-The saturation of a color is its degree of richness, purity, or grayness. Commonly used term for saturation is chroma. For example, cadmium orange and burnt sienna are the same hue (orange), but cadmium orange has a high saturation whereas burnt sienna has a low saturation.

1. Primary Colour

In traditional colour theory, these are the 3 pigment colours that cannot be mixed or formed by any combination of other colours. All other colours are derived from these 3 hues: Red, yellow and blue

1. Secondary Colours

These are the colours formed by mixing the primary colours: Green, orange and purple

1. Tertiary Colours

These are the colours formed by mixing one primary and one secondary colour. Yellow-orange, red-orange, red-purple, blue-purple, blue-green and yellow-green.