

ISE IP 2022-23

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*Required

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In bit plane slicing most of information of an image is contained by *

- ☒ highest order plane
- ☐ mid order plane
- ☐ all order plane
- ☐ lowest order plane

Digital functions' derivatives are defined as *

- ☒ differences
- ☐ multiplication
- ☐ addition
- ☐ division

In formula $g(x,y) = T[f(x,y)]$, T is the *

- ☐ transformed image
- ☒ transformed function
- ☐ transformation vector
- ☐ transformation theorem



Simplest piecewise linear transformation function is *

- ☐ linear stretching
- ☒ contrast stretching
- ☐ color stretching
- ☐ elastic stretching

An image is considered to be a function of $f(x, y)$ where f represents *

- ☐ height of image
- ☒ intensity of image
- ☐ width of image
- ☐ resolution of image

Color model used for monitors is *

- ☒ RGB
- ☐ CMY
- ☐ CMYK
- ☐ HSI



Color model used for Printer is *

- ☐ RGB
- ☐ CMY
- ☒ CMYK
- ☐ HSI

Sum of all components in normalized histogram is equal to *

- ☒ 1
- ☐ 100
- ☐ 0
- ☐ 2

Thresholding function in contrast stretching creates *

- ☒ binary image
- ☐ low quality image
- ☐ high quality image
- ☐ enhanced image



To convert continuous image to digital form, we have to sample function in amplitude is called *

- ☒ quantization
- ☐ sampling
- ☐ Signaling
- ☐ amplifying

To map a narrow range of low gray level input image into a wider range of output levels we use *

- ☒ Log Intensity Transformation Function
- ☐ Powerlaw Intensity Transformation Function
- ☐ Inverse Log Intensity Transformation Function
- ☐ Identity Intensity Transformation Function

Amount of energy perceived by human through light source is called *

- ☐ brightness
- ☐ reflectance
- ☐ luminance
- ☒ radiance



Correction of power law response is called *

- ☐ alpha correction
- ☐ reflectance
- ☒ gamma correction
- ☐ beta correction

RGB colors on internet applications are called *

- ☐ safe colors
- ☐ colors space
- ☐ web colors
- ☒ safe web colors

Green plus blue color produces *

- ☐ yellow
- ☐ red
- ☐ magenta
- ☒ cyan



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