LMRT Digital Imaging

1. The smallest unit of a digital image is the
2. The three-dimensional representation of a tissue volume element in imaging is called a
3. The number of shades of gray a pixel can display is determined by its depth.
4. The is the total number of pixels arranged in rows and columns.
5. The ability of a digital imaging system to distinguish small differences in tissue densities is called resolution.
6. The ability of a system to record fine detail is called resolution.
7. The range of exposure values that can be accurately captured by a digital detector is called the range.
8. is the mathematical process used to adjust digital images, such as edge enhancement or smoothing.
9. The system used for storing, retrieving, and distributing digital images is called
10. The universal standard for medical image formatting and transmission is called
11. In computed radiography (CR), the imaging plate contains a phosphor layer that stores the latent image.
12. In direct digital radiography (DR), x-ray photons are converted directly into an signal.
13. Increasing the matrix size while keeping the field of view the same results in spatial resolution.
14. The adjustment that controls the brightness of the image is the window
15. The adjustment that controls the contrast of the image is the window