



Rajarata University of Sri Lanka
Department of Computing

ICT 2403- GRAPHICS & IMAGE PROCESSING
Class Activity -02

Mark whether the following statements are TRUE or FALSE.

1. Spatial resolution is the smallest discernible detail in an image. (.....)
2. “Lines per inch (LPI)” is usually used in monitors to measure spatial resolution. (.....)
3. The smallest discernible change in intensity level is known as intensity resolution. (.....)
4. An 8 bit image quantizes intensity in $1/1024$ units of intensity amplitude. (.....)
5. False contouring is an effect caused due to the use of insufficient number of gray levels in smooth areas of digital image. (.....)
6. Magic number in many image file formats is used to identify the width and size of the file. (.....)
7. Aliasing occurs due to the under sampling during the image formation. (.....)
8. Process of using known data to estimate values at unknown location is known as Image Interpolation. (.....)
9. As a consequence of distortion the digital images can be deformed. (.....)
10. When interpolation occurs, the quality of the image will always lose. (.....)
11. Using more neighbor pixels in interpolation implies fitting the points with a more complex surface, which generally gives smoother results. (.....)
12. $(x+1, y)$, $(x-1, y)$, $(x, y+1)$ and $(x, y-1)$ are the 4 neighbors of a pixel p at coordinates (x, y) and is denoted as $N_d(P)$. (.....)
13. Two pixels are said to be connected when their neighbors and their gray levels having specified criterion of similarity. (.....)
14. Edges are intensity discontinuities and boundaries are closed paths in an image. (.....)
15. If the image has one connected component, then it is defined as connected set. (.....)