

Name: \_\_\_\_\_ Date: \_\_\_\_\_

# ARTIFACTS

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|---|-----------------------------|
| 1. CAN ARISE FROM INSUFFICIENT PROJECTION OR VIEW SAMPLING  | A. STREAKING                |
| 2. IMPROPER SAMPLING OF DATA, METAL OR BEAM HARDENING   | B. SCATTER                  |
| 3. THIS RADIATION IS A FUNDAMENTAL PHENOMENON ASSOCIATED WITH THE INTERACTION BETWEEN X-RAY PHOTONS AND MATTER. | C. PHANTOMS                 |
| 4. CAUSED BY INCOMPLETE/INSUFFICIENT PROJECTION SAMPLES (2 WDS)   | D. SHADING                  |
| 5. INCOMPLETE PROJECTIONS, OFF-FOCUS RADIATION  | E. RING                     |
| 6. MULTIPLE TISSUES WITH THE SAME VOXEL RESULTS IN INACCURATE CALCULATIONS OF THE VOXELS'S CT NUMBERS (3 WDS)   | F. BEAM HARDENING           |
| 7. INCREASE IN THE MEAN ENERGY OF THE X-RAY BEAM AS IT PASSES THROUGH THE PATIENT. (2 WDS)                      | G. ALIASING                 |
| 8. THESE OBJECTS ARE HIGHLY ATTENUATED TO THE RADIATION , WHICH RESULTS IN ERROR IN PROJECTION PROFILES         | H. QUANTUM                  |
| 9. PATIENT'S CAN DO THIS VOLUNTARY OR NON VOLUNTARY, WHICH APPEARS AS STREAKS                                   | I. PARTIAL VOLUME AVERAGING |
| 10. BAD DETECTOR CHANNELS IN 3RD GENERATION CT SCANNERS.  | J. METAL                    |
| 11. A DISTORTION OR ERROR IN AN IMAGE THAT IS UNRELATED TO THE SUBJECT BEING STUDIED.                           | K. ARTIFACT                 |
| 12. AN X-RAY FLUX OR THE NUMBER OF DETECTED X-RAY PHOTONS   | L. MOTION                   |
| 13. IMAGE NOISE IS MEASURED TYPICALLY ON UNIFORM_____.  | M. CONE BEAM                |