## Radiation Image Quality Assignment

## Instructions: Answer the following questions. Be sure to explain where necessary.

- 1. Define image quality in radiography.
- 2. Name four primary factors that affect radiographic image quality.
- 3. What is radiographic density (or brightness) and what controls it?
- 4. What is radiographic contrast and what technical factor primarily affects it?
- 5. How does kVp influence image contrast?
- 6. What is spatial resolution, and what are two ways to improve it?
- 7. Define distortion in radiography and list two types.
- 8. How does OID (object-to-image distance) affect image sharpness?
- 9. What is the effect of increasing mAs on image quality?
- 10. What role does collimation play in image quality?
- 11. Explain the relationship between patient dose and image quality.
- 12. What is noise in an image, and how can it be reduced?
- 13. How does motion affect image quality, and how can it be minimized?
- 14. What is the effect of a grid on image quality?
- 15. Why is proper positioning important for achieving optimal image quality?