

RA202 image production class three

True/False

Indicate whether the sentence or statement is true or false.

- 1. As time increases density increases
- 2. When edema is present you should decrease your technique
- 3. As kVp increases density increases
- 4. As kVp increases distortion increases
- 5. Emphysema is a destructive disease
- 6. As the field size increases contrast decreases
- 7. An increase in screen speed will increase the density on the film
- 8. As SID increases recorded detail increases
- 9. As the SID increases density on the film increases
- 10. An increase in OID will decrease recorded detail
- 11. An increase in film screen speed will increase the recorded detail
- 12. As mA increases density increases
- 13. Using a grid will increase the contrast
- 14. An increase in OID will increase contrast
- 15. An increase in Grid ratio will decrease recorded detail
- 16. As the field size increases density increases
- 17. Changes in the focal spot size have the greatest affect on recorded detail
- 18. Distortion is only affected by changes in mAs
- 19. An increase in Grid ratio will decrease contrast
- 20. As kVp increases contrast increases
- 21. As time increase recorded detail decreases
- 22. The only way to prevent scatter from reaching the film is to restrict the beam

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- 23. In a PA projection of the chest being used for cardiac evaluation, the heart measures 15.2 cm between its widest points. If the magnification factor is know to be 1.3 what is the actual diameter of the heart?

- a. 9.7
- b. 11.7

- c. 19.7
- d. 20.3



24.

The artifact in the image above is result of

- a. static
- b. patient condition
- c. increased kVp
- d. roller marks

25. What is the smallest percentage of increase in milliamperage seconds that will produce a noticeable change in radiographic density?

- a. 10%
- b. 30%
- c. 50%
- d. 100%



26.

The artifact in the above image is caused by a

- a. technologist error
- b. processing error
- c. technique adjustment
- d. patient condition



27.

To correct the positioning error in the above Waters film the patient should needs to

- a. elevate chin so the petrous ridges are projected just below the maxillary sinuses
- b. place their forehead again the board to form a 15 degree angle with the film
- c. rotate towards their left side to align the nasal septum with the odontoid
- d. tilt chin so the interpupillary line is perpendicular to the film



28.

The image above was a result of

- a. an upside down grid
- b. high mAs, low kV
- c. the patient moving
- d. a 300 speed screen

_____ 29. Which of the following pathologic conditions would require a decrease in exposure factors?

- a. Congestive heart failure
- b. pneumonia
- c. emphysema
- d. pleural effusion

_____ 30. When evaluating radiographs you take which of the following into consideration?

- a. film density
- b. film contrast
- c. positioning
- d. all of these

**RA202 image production class three
Answer Section**

TRUE/FALSE

1. ANS: T
2. ANS: F
3. ANS: T
4. ANS: F
5. ANS: T
6. ANS: T
7. ANS: T
8. ANS: T
9. ANS: F
10. ANS: T
11. ANS: F
12. ANS: T
13. ANS: T
14. ANS: T
15. ANS: F
16. ANS: T
17. ANS: T
18. ANS: F
19. ANS: F
20. ANS: F
21. ANS: T
22. ANS: F

MULTIPLE CHOICE

23. ANS: B
24. ANS: A
25. ANS: B
26. ANS: A
27. ANS: A
28. ANS: A
29. ANS: C
30. ANS: D