Radiography Essentials for Limited Practice 4th Edition Long Test Bank

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Chapter 2: Introduction to Radiographic Equipment Test Bank

MULTIPLE CHOICE

CL	III LE CHOICE		
1.	X-rays that leave that a. tube housing. b. tube port. c. patient. d. image receptor	system	
	ANS: B	KEF:	Page 13
2.	The portion of the exposures is called a. transformer. b. grid cabinet. c. control booth. d. tube stand.	•	oom that is protected from scatter radiation and is safe during
	ANS: C	REF:	Page 20
3.	An invisible line in x-ray tube is called a. radiation field. b. primary x-ray b. c. x-ray tube. d. central ray.	the:	nter of the x-ray beam and perpendicular to the long axis of the
	ANS: D	REF:	Page 13
4.	An IR that has been image called the: a. latent image. b. visible image. c. remnant radiatid. radiation field.	-	sed to a body part but has not yet been processed has an unseen
	ANS: A	REF:	Page 13
5.	Tissues with greatedense tissues, such a. more b. less c. equal amounts d. no	as fat.	, such as bone, will absorb radiation, as compared with less
	ANS: A	REF:	Page 13
6.	The absorption of a. scatter.	k-rays b	by matter is called:

	c. fog.d. remnant radiation	n.	
	ANS: B	REF: Page 13	
7.	a. Scatter radiationb. Scatter radiationc. Scatter radiation	ing statements regarding scatter radiation is true? is another term for remnant radiation. is created within the tube with the primary beam. has less energy than the primary beam. travels in one direction and is easy to control.	
	ANS: C	REF: Page 13	
8.	The varying intensit IR is calleda. scatter b. fog c. remnant d. primary	y of radiation that exits on the opposite side of the patient and reaches the radiation.	
	ANS: C	REF: Page 13	
9.	 a. x-ray tube and the tube stand. b. cassette and phosphor imaging plate. c. control console and the transformer. d. tube locks and the detent. 		
	ANS: B	REF: Page 14	
10.	Which of the follow examinations? 1. 5×5 in. 2. 10×12 in. 3. 14×17 in. a. 1 and 2 only b. 1 and 3 only c. 2 and 3 only d. 1, 2, and 3	ing are common computed radiography sizes used for general	
	ANS: C	REF: Page 14	
11.	The radiation that exa. primary. b. remnant. c. scatter. d. latent.	xits the x-ray tube and travels in-air to the patient is called:	
	ANS: A	REF: Page 13	
12.	Computed radiograp	ohy (CR) is sometimes called a(n) system.	

b. attenuation.

- a. "filmless"
- b. "cassetteless"
- c. "imageless"
- d. "radiationless"

ANS: A REF: Page 14

- 13. Where is the image originally obtained and stored in computed radiography (CR)?
 - a. On a film
 - b. In a phosphor material
 - c. On a laser disk
 - d. In a microprocessor

ANS: B REF: Page 14

- 14. Computed radiography (CR) eliminates the need for:
 - a. proper positioning.
 - b. proper collimation.
 - c. cassettes.
 - d. darkrooms.

ANS: D REF: Page 14

- 15. A mechanism that tends to stop a moving part in a specific location is called a:
 - a. collimator.
 - b. control console.
 - c. transformer.
 - d. detent.

ANS: D REF: Page 17

- 16. The boxlike device attached under the tube housing that allows the limited operator to vary the size of the radiation field is called a:
 - a. collimator.
 - b. transformer.
 - c. detent.
 - d. tube port.

ANS: A REF: Page 17

- 17. A device to protect the IR from being fogged by scatter radiation is called a:
 - a. collimator.
 - b. detent.
 - c. grid or Bucky.
 - d. cassette.

ANS: C REF: Page 19

- 18. The principal source of scatter radiation is the:
 - a. x-ray tube.
 - b. collimator.
 - c. patient.
 - d. control booth.

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ANS: C REF: Page 22

- 19. A tilting table will allow the head end to be lowered at least 15 degrees into the _____ position.
 - a. Trendelenburg
 - b. Sims
 - c. Fowler
 - d. supine

ANS: A

REF: Page 18

- 20. The principal purpose of doing a "safety check" before making an exposure is to:
 - a. ensure a quality radiographic image.
 - b. prevent radiation hazard to yourself.
 - c. protect the patient from unnecessary exposure.
 - d. prevent accidental exposure of co-workers.

ANS: D REF: Page 22

- 21. The primary radiation that enters the patient and then leaves it, traveling in all directions is called:
 - a. primary.
 - b. scattered.
 - c. latent.
 - d. remnant.

ANS: B

REF: Page 13

- 22. Unwanted image exposure that is caused by scatter radiation is called:
 - a. primary radiation.
 - b. remnant radiation.
 - c. attenuation.
 - d. scatter radiation fog.

ANS: D REF: Page 13

- 23. After an x-ray is taken and the image is stored in the computed radiography plate, it has to be processed in the:
 - a. darkroom.
 - b. PC computer.
 - c. image reader device.
 - d. microprocessor.

ANS: C REF: Page 15

- 24. The most frequent adverse incident that can happen to a patient in the radiology department is:
 - a. nausea.
 - b. falling.
 - c. back pain.
 - d. pinching fingers in the Bucky.

ANS: B REF: Page 19