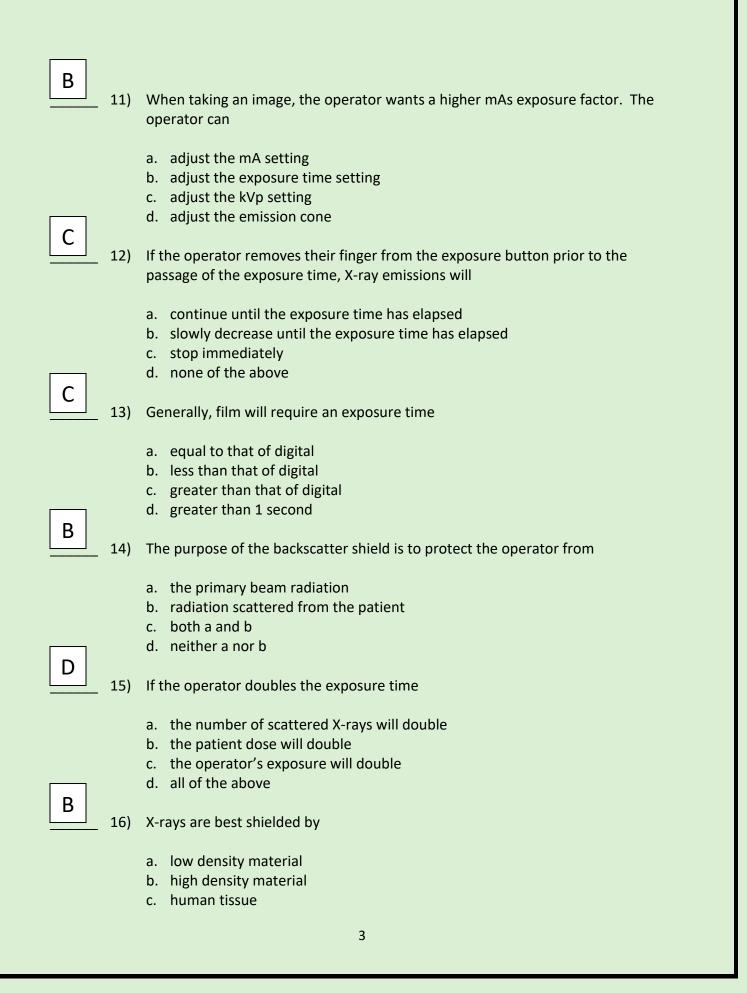
nployee: _	Date:
structor: _	Score:
	estion carefully and choose the best answer.
A 1)	ALARA is
	 a safety principle meant to keep radiation dose to a minimum b. a suggested improvement to always do what is responsible c. the alarming point on X-ray devices d. the target material in X-ray devices
C 2)	Which are the two primary mechanisms of X-ray interaction in patients?
	a. coherent scatter and photoelectric absorption
	 b. Compton scatter and coherent scatter c. Compton scatter and photoelectric absorption
	d. photoelectric scatter and coherent absorption
B 3)	Absorbed dose is defined as
	a. energy dissipated through Compton scatter
	b. energy absorbed per unit mass
	 energy in the X-ray beam after attenuation of X-rays in the patient energy collected on the image receptor
D	
4)	What safety consideration(s) should be remembered when trying to minimize radiation exposure?
	a. Time
	b. Distance
	c. Shielding d. all of the above

A 5)	If the operator has no options except to violate the backscatter protection zone,
	the operator should
	a. wear a lead apron
	b. not take the image
	c. get supervisory approvald. proceed without concern
C	
6)	When taking an image, the operator should stand
	a. anywhere that is convenient to get the best image
	b. to the left or right of the backscatter shield
	c. directly behind the backscatter shield
D	d. none of the above
7)	When not in use for an extended period of time, the Cocoon should be stored
	a. on the counter
	b. in the exam room
	c. in the breakroom
	d. in a locked cabinet
8)	To maximize the backscatter protection zone, the device should be held so that the
	a. backscatter shield is parallel to the operator and close to the patient
	b. X-ray emission cone is parallel to the operator
	c. backscatter shield is perpendicular to the operator
	d. none of the above
9)	Prior to taking an exposure, the operator should ensure that
	a. they are within the backscatter protection zone
	b. the patient is properly shielded
	c. all unnecessary persons are out of the room
	d. all of the above
B 10)	When trying to capture a difficult image, the operator should
	a. do whatever is necessary to get the image needed
	b. move the patient before moving the device
	c. move the device before moving the patient
	d. contact the manufacturer for advice
	2



d. scatter material

С	17)	The majority of X-rays in a 70 kV primary X-ray beam are produced by which mechanism?
A	18)	 a. Compton scatter b. characteristic X-rays c. Bremsstrahlung d. none of the above The glass X-ray tube provides "inherent filtration" for the primary X-ray beam. How does this filtration impact the energy profile of the emitted X-rays?
D	19)	 a. lower energy X-rays are removed b. higher energy X-rays are removed c. only characteristic X-rays are removed d. no X-rays are removed X-rays penetrating the housing are classified as what type of radiation?
	,	 a. primary b. scattered c. Compton d. leakage
D	20)	 In order to prevent unwanted exposure, what practice is best? a. lock the unit in a cabinet when not in use b. never point the emission port at anyone not intended to receive X-rays c. remain in the backscatter protection zone during a radiographic procedure d. all of the above
С	21)	 A stochastic biological effect occurs a. if a threshold is exceeded b. with all exposures of X-ray radiation c. randomly d. only in children

В		
	_ 22)	Generally, children require less exposure time than adults because
		a. adults generally have more dental problems
		b. children have thinner tissues and smaller teeth
		c. tissue density is lower in children
		d. the child is more prone to movement
C	22)	
	_ 23)	Which exposure factor can be changed by the operator on the Cocoon?
		a. tube potential
		b. tube current
		c. exposure time
		d. all of the above
D		
	_ 24)	Except for their energy level, X-rays are essentially the same as
		a. microwaves b. visible light
		c. radio waves
		d. all of the above
A		
	_ 25)	What is meant if an atom is "ionized"?
		a. it loses an electron
		b. its mass is doubled
		c. its nucleus shrinks
		d. all of the above