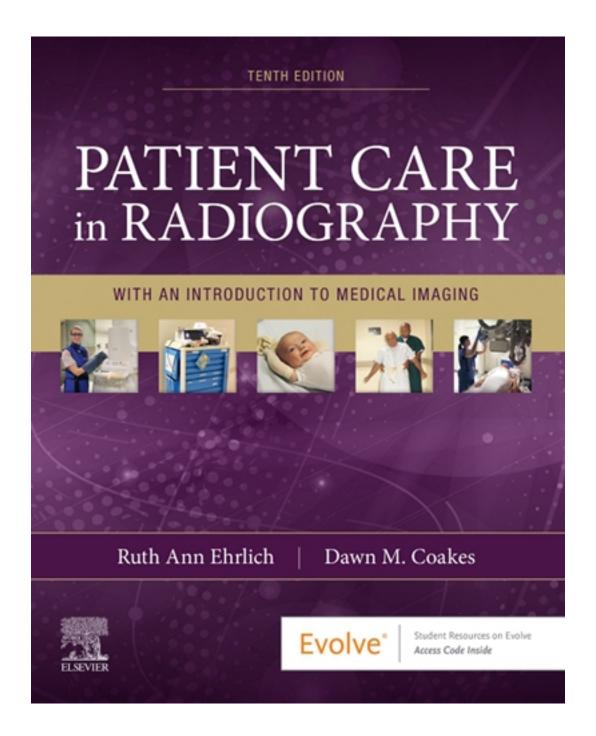
Test Bank for Patient Care in Radiography 10th Edition by Ehrlich

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Test Bank

Chapter 02: Image Quality Factors

Ehrlich: Patient Care in Radiography: With an Introduction to Medical Imaging, 10th Edition

MU

UL	TIPLE CHOICE				
1.	· -		-	_	g factors: 200 mA, 0.04 seconds, 80 kVp, and he value of the mAs?
	ANS: C	REF:	p. 22	OBJ:	3
2.	An increase in OID 1. increased magnif 2. decreased image 3. increased image a. 1 only b. 2 only c. 1 and 2 d. 1 and 3	ication detail.	1.		
	ANS: C	REF:	p. 30	OBJ:	6
3.	a. mAsb. kVpc. Exposure timed. Milliamperage				flow rate in the x-ray tube circuit?
	ANS: D	REF:	p. 25	OBJ:	1
4.	In order to increase a. Kilovoltage b. Milliamperage c. mAs d. Exposure time	the pe	netration of th	ie x-ra	y beam, which factor should be increased?
	ANS: A	REF:	p. 28	OBJ:	4
5.	When all other expequantity of x-rays? a. 1 millisecond b. 10 milliseconds c. 0.1 seconds d. 0.01 seconds		actors are equ	al, whi	ch exposure time would produce the greatest
	ANS: C	REF:	p. 27	OBJ:	2

6.	Magnification is at a. OID only. b. SID only. c. both OID and Sd. neither OID no	SID.					
	ANS: C	REF: p. 29	OBJ:	4 6 7			
7.	 An image receptor that contains a photostimulable plate that is converted to an image by processing with a laser is part of a system called a. digital radiography (DR). b. computed radiography (CR). c. a film/screen system. d. digital fluoroscopy. 						
	ANS: B	REF: p. 26	OBJ:	8			
8.	Radiation exposure a. OID. b. kVp. c. mAs. d. SID.	e is directly proporti	onal to				
	ANS: C	REF: p. 22	OBJ:	3			
9.	An image that is bla. high contrast. b. sharp detail. c. low contrast. d. poor detail.	lack in the darkest a	reas and	l white in the lightest areas is said to have			
	ANS: A	REF: p. 31	OBJ:	10			
10.	 What is used to determine if the exposure factors were correct on a digital image? a. Exposure indicator number b. Visual clues (too light or too dark) c. Technique chart d. Optical density number 						
	ANS: A	REF: p. 28	OBJ:	13			
11.	 An increase in kVp affects the x-ray beam by causing it to a. have greater intensity. b. be more homogeneous. c. cover a larger area. d. contain more long wavelengths. 						
	ANS: A	REF: p. 23	OBJ:	4			
12.	Image detail is affea. mAs and kVp.	ected by					

- b. kVp and SID.c. focal spot size and patient motion.

d. focal spot size and mAs.

	ANS: C	REF:	p. 28	OBJ:	12	
13.	When a radiograph processing, the ima a. digital radiograb. computed radioc. fluoroscopy. d. picture archivir	nge reco phy (D ography	eptor system i PR). V (CR).	s of the		
	ANS: A	REF:	p. 27	OBJ:	8	
14.	When a large OID increasing the a. kVp. b. SID. c. mAs. d. field size.	causes	poor image d	etail, th	nis can be compensated to some degree by	
	ANS: B	REF:	p. 28	OBJ:	7 12	
15.	When a change in Squality, the factor use. kVp. b. SID. c. mAs. d. field size.			_	n another factor in order to maintain image	
	ANS: C	REF:	p. 24	OBJ:	7	
16.	 6. Which statement is <i>false</i> regarding digital annotation? a. Annotations should be added outside of imaged anatomy. b. Annotation of side markers has replaced the use of traditional inherent markers. c. Annotation may be used to add explanatory notes for the radiologist. d. Annotation may be used to specify the patient position or projection, i.e., upright, cross-table. 					
	ANS: B	REF:	p. 27	OBJ:	13	
17.	Unequal magnificate called a. optical density. b. image contrast. c. image detail. d. shape distortion ANS: D	1.	various portio	OBJ:	the radiographic subject affects the image factor	