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Iannucci: Dental Radiography, 4th Edition

Chapter 01: Radiation History

Test Bank

MULTIPLE CHOICE

- 1. Radiation is defined as:
 - A. A form of energy carried by waves or streams of particles.
 - B. A beam of energy that has the power to penetrate substances and record image shadows on photographic film.
 - C. A high-energy radiation produced by the collision of a beam of electrons with a metal target in an x-ray tube.
 - D. A branch of medicine that deals with the use of x-rays.

ANS: A

	Feedback		
Α	Radiation is a form of energy carried by waves or streams of particles.		
В	An x-ray is a beam of energy that has the power to penetrate substances and record		
	image shadows on photographic film.		
С	X-radiation is a high-energy radiation produced by the collision of a beam of electrons		
	with a metal target in an x-ray tube.		
D	Radiology is a branch of medicine that deals with the use of x-rays.		

PTS: 1 REF: Page 2, Basic Terminology

- 2. A radiograph is defined as:
 - A. A beam of energy that has the power to penetrate substances and record image shadows on photographic film.
 - B. A picture on film produced by the passage of x-rays through an object or body.
 - C. The art and science of making radiographs by the exposure of film to x-rays.
 - D. A form of energy carried by waves or a stream of particles.

ANS: B

	Feedback			
Α	An x-ray is a beam of energy that has the power to penetrate substances and record			
	image shadows on photographic film.			
В	A radiograph is a picture on film produced by the passage of x-rays through an object or			
	body.			
С	Radiography is the art and science of making radiographs by the exposure of film to x-			
	rays.			
D	Radiation is a form of energy carried by waves or streams of particles.			

PTS: 1 REF: Page 3, Basic Terminology

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Test Bank 1-2

- 3. Which of the following statements is *true* regarding the importance of dental radiographs?
 - A. An oral examination with dental radiographs limits the practitioner to what is seen clinically.
 - B. All dental diseases and conditions produce clinical signs and symptoms.
 - C. Dental radiographs are not a necessary component of comprehensive patient care.
 - D. Many dental diseases are typically discovered only through the use of dental radiographs.

ANS: D

	Feedback
Α	An oral examination without dental radiographs limits the practitioner to what is seen
	clinically.
В	Many dental diseases and conditions produce no clinical signs and symptoms.
С	Dental radiographs are a necessary component of comprehensive patient care.
D	Many dental diseases are typically discovered only through the use of dental
	radiographs.

PTS: 1 REF: Page 3, Importance of Dental Radiographs

4. The x-ray was discovered by:

A. Heinrich Geissler

C. Johann Hittorf

B. Wilhelm Roentgen

D. William Crookes

ANS: B

	Feedback		
Α	Heinrich Geissler built the first vacuum tube in 1838.		
В	Wilhelm Roentgen discovered the x-ray on November 8, 1895.		
С	Johann Hittorf observed in 1870 that discharges emitted from the negative electrode of a vacuum tube traveled in straight lines, produced heat, and resulted in a greenish fluorescence.		
D	William Crookes discovered in the late 1870s that cathode rays were streams of charged particles.		

PTS: 1 REF: Page 3, Roentgen and the Discovery of X-Rays

- 5. Who exposed the first dental radiograph in the United States using a live person?
 - A. Otto Walkoff
 - B. Wilhelm Roentgen
 - C. Edmund Kells
 - D. Weston Price

ANS: C

Test Bank 1-3

	Feedback		
Α	Otto Walkoff was a German dentist who made the first dental radiograph.		
В	Wilhelm Roentgen was a Bavarian physicist who discovered the x-ray.		
С	Edmund Kells exposed the first dental radiograph in the United States using a live		
	person.		
D	Weston Price introduced the bisecting technique in 1904.		

PTS: 1 REF: Page 5, Pioneers in Dental X-Radiation

- 6. William Rollins:
 - A. Established the first college course in radiography for dental students.
 - B. Was the first to use film in intraoral radiography.
 - C. Developed the first dental x-ray unit.
 - D. Developed the first hot cathode x-ray tube.

ANS: C

	Feedback			
Α	A Howard Riley Raper developed the first college course in radiography for dental			
	students.			
В	Frank Van Woert was the first dentist to use film in intraoral radiography.			
С	William Rollins developed the first dental x-ray unit.			
D	William D. Coolidge developed the first hot cathode x-ray tube.			

PTS: 1 REF: Page 5, Pioneers in Dental X-Radiation

7. The variable kilovoltage x-ray machine was introduced in:

A. 1895

C. 1923

B. 1913

D. 1957

ANS: D

	Feedback		
Α	Wilhelm Roentgen discovered the x-ray in 1895.		
В	William Coolidge developed the first hot cathode x-ray tube in 1913.		
С	A miniature version of the x-ray tube was placed inside the head of an x-ray machine		
	and immersed in oil by the Victor X-Ray Corporation in 1923.		
D	The variable kilovoltage x-ray machine was introduced in 1957.		

PTS: 1 REF: Page 6, Table 1-1 Highlights in the History of Dental Radiography

8.	Current fast radiographic film requires les	s than %	of the initial	exposure ti	mes used
	in 1920.				

A. 25

C. 5

B. 10

D. 2

ANS: D

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Test Bank 1-4

	Feedback	
Α	The exposure time has been reduced to less than 2% of what it was in 1920.	
В	The exposure time has been reduced to less than 2% of what it was in 1920.	
С	The exposure time has been reduced to less than 2% of what it was in 1920.	
D	Current fast radiographic film requires less than 2% the initial exposure times used in	
	1920.	

PTS: 1 REF: Page 5-6, History of Dental X-Ray Film