Power Instrumentation for the Dental Professional 1st edition Mayo Test Bank

SKU: 9781284235999-TEST-BANK

Power Instrumentation for the Dental Professional, First Edition
Lisa Mayo, RDH, BSDH, MHA
Test Bank
Chapter 2

Multiple Choice

1. Which of the following is a reason why a biofilm can readily bind to and build colonies inside dental unit water line tubing?
A) Tubing is plastic with a narrow lumen size
B) Tubing has inconsistent water flow rates
C) Water can become stagnant inside the tubing
D) All of the above
Answer: D
A-Head: Dental aerosol management
Subject: Chapter 2
Complexity: Moderate
Bloom's Taxonomy: Remembering/Understanding

2. Which of the following devices will remove 100 cubic of air per minute and reduce environmental aerosol contamination by at minimum 90% when used as instructed by the manufacturer?
A). Low volume evacuation
B.) Extraoral scavenging device
C.) Filtering facepiece respirator
D.) High volume evacuation
Answer: D
A-Head: Dental aerosol management
Subject: Chapter 2
Complexity: Moderate
Bloom's Taxonomy: Applying/Analyzing

3. Which of the following is a technology that can improve indoor air quality and reduce the risk of disease transmission from contaminated air?
A). UV light
B.) Vapor hydrogen peroxide
C.) High volume evacuation
D.) Both A & B
E.) All of the above
Answer: D
A-Head: Dental aerosol management
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Complexity: Moderate
Bloom's Taxonomy: Applying/Analyzing

True/False

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1. True or False? A biofilm is a collection of microbial cells that bind together on a surface and form an enclosed matrix held together by polysaccharides that is reversibly bound to a surface.
Answer: False
A-Head: Dental aerosol management
Subject: Chapter 2
Complexity: Easy
Bloom's Taxonomy: Remembering/Understanding

2. True or False? Water and vacuum tubing on a dental unit does not provide a favorable environment for the growth of a biofilm.
Answer: False
A-Head: Dental aerosol management
Subject: Chapter 2
Complexity: Easy
Bloom's Taxonomy: Remembering/Understanding

3. True or False? According to the CDC, it is acceptable for the dental unit water line to have 250CFU/mL heterotrophic mesophilic water bacteria in the line for a surgical procedure
Answer: False
A-Head: Dental aerosol management
Subject: Chapter 2
Complexity: Easy
Bloom's Taxonomy: Remembering/Understanding

4. True or False? According to the CDC, it is acceptable for the dental unit water line to have 400CFU/mL heterotrophic mesophilic water bacteria in the line for a non-surgical procedure.
Answer: True
A-Head: Dental aerosol management
Subject: Chapter 2
Complexity: Easy
Bloom's Taxonomy: Remembering/Understanding

5. True or False? The ASTM has set three performance levels for filtering facepiece respirator masks.
Answer: False
A-Head: Dental aerosol management
Subject: Chapter 2
Complexity: Easy
Bloom's Taxonomy: Remembering/Understanding

6. True or False? If you wear a face shield during an aerosol-generating procedure, you do not need to additionally wear protective eye wear.
Answer: False
A-Head: Dental aerosol management
Subject: Chapter 2
Complexity: Easy

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Bloom's Taxonomy: Remembering/Understanding

7. True or False? A surgical mask will provide higher protection for the wearer from small particle size aerosols compared to a filtering facepiece respirator mask.
Answer: False
A-Head: Dental aerosol management
Subject: Chapter 2
Complexity: Easy
Bloom's Taxonomy: Remembering/Understanding

8. True or False? If you have a HEPA filter in your dental operatory, you do not have to use a high volume evacuation device during a dental aerosol-generating procedure.
Answer: False
A-Head: Dental aerosol management
Subject: Chapter 2
Complexity: Moderate
Bloom's Taxonomy: Evaluating/Creating

Multiple Response

1. Which of the following would you prefer to use during a dental aerosol-generating procedure that offers the highest level of protection for the oral health care provider? Select all that apply.
A. Surgical mask
B. Filtering facepiece respirator mask
C. Low volume evacuation
D. High volume evacuation
E. Hair covering
F. Face shield
Answer: B, D, E, F
A-Head: Dental aerosol management
Subject: Chapter 2
Complexity: Moderate
Bloom's Taxonomy: Applying/Analyzing

2. Which of the following is an agent present in alcohol-based hand antiseptics used in health care? Select all that apply.
A. Chlorhexidine gluconate
B. Hexachlorophene
C. Triclosan
D. Isopropanol
E. Ethanol
F. Chloroxylenol
Answer: A, B, C, D, E
A-Head: Dental aerosol management
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Complexity: Difficult
Bloom's Taxonomy: Remembering/Understanding

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