

# International DHA-GD

DHA General Dentistry (GENDE)



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## Product Version

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# Latest Version: 6.0

## Question: 1

What cycle is also called the Krebs cycle?

- A. Citric acid cycle
- B. Lactic acid cycle
- C. Pyruvate cycle
- D. Cytochromic cycle
- E. Ferric cycle

**Answer: A**

Explanation:

The citric acid cycle is also called the Krebs cycle as well as the tricarboxylic acid cycle. It involves the metabolizing of glucose in the mitochondrial matrix. It also oxidizes acetyl-CoA.

## Question: 2

Which of the following is not a basic function of the kidneys?  
check all answers that apply

- A. To maintain normal extracellular and intracellular fluid volumes.
- B. To absorb metabolic wastes.
- C. To reabsorb metabolic fuels.
- D. To maintain normal plasma levels.
- E. Contribute to long-term control of blood pressure levels.

**Answer: B**

Explanation:

Rather than absorbing metabolic wastes, the kidney's function is to excrete these wastes. Examples include toxins, acids, and nitrogenous products. The kidneys also regulate ECF and ICF fluid levels and volumes and absorb fuels such as glucose, lactate, and amino acids.

## Question: 3

Which muscle causes flattening of the tongue?  
check all answers that apply

- A. Verticalis
- B. Transversus

- C. Longitudinals
- D. Genioglossus
- E. Styloglossus

**Answer: A**

Explanation:

The Verticalis muscle is one of the 3 intrinsic muscles of the tongue. Its only purposes are to flatten and broaden the tongue's surface.

### Question: 4

Cidal antibiotics work best in what phase of bacterial growth?  
check all answers that apply

- A. Death phase
- B. Stationary phase
- C. Log phase
- D. Lag phase
- E. Growth phase

**Answer: C**

Explanation:

The log phase is when exponential growth and division of bacteria takes place. At this phase is when cidal antibiotics can be most effective.

### Question: 5

The sweat chloride test is used to asses Na<sup>+</sup> levels in order to diagnose which disease?

- A. Marfan's syndrome
- B. Cystic fibrosis
- C. Neurofibromatosis
- D. McCune-Albright syndrome
- E. Fanconi anemia

**Answer: B**

Explanation:

Cystic fibrosis affects the Na<sup>+</sup> channels, especially of the mucous and sweat glands. It can cause lung infections and bronchiectasis from thick mucous within the airways. Life expectancy of people with CF is 28 years.

### Question: 6

A talon cusp is often seen on which tooth?

- A. Maxillary central incisors
- B. Maxillary lateral incisors
- C. Maxillary canines
- D. Mandibular lateral incisors
- E. Mandibular canines

**Answer: B**

Explanation:

Maxillary lateral incisors are the most common location to see talon cusps, also known as dens evaginatus. It is due to an outward projection during development, creating an extra cusp.

### Question: 7

Alcohol-based hand rubs are:  
check all answers that apply

- A. Bacteriocidal
- B. Sporicidal
- C. Fungicidal
- D. Bacteriostatic
- E. Appropriate for surgical antisepsis
- F. Not to be used without water

**Answer: A,B,C,E**

Explanation:

Alcohol-based hand rubs are used for waterless hand hygiene or during preoperative preparation for surgical antisepsis. The preparation is usually 60-95% ethanol or isopropanol alcohol.

### Question: 8

Which of the following findings may be associated with excessive occlusal forces?  
check all answers that apply

- A. Fibrosis
- B. Cemental resorption
- C. Cemental tears
- D. Increased trabeculation bone
- E. Internal resorption
- F. Possible ankylosis

**Answer: A,B,C,F**

Explanation:

Excessive occlusal force can cause occlusal pulpal necrosis and calcification, cemental tears, and alternating areas of resorption and repair of alveolar bone. Radiographically, reduced trabeculation of bone may also be seen.

### Question: 9

What edge is best for metal margins of indirect restorations?

- A. Feathered
- B. Knife
- C. Bevel
- D. Shoulder
- E. Chamfer

**Answer: D**

Explanation:

Chamfer finish lines are best for metal margins. The type of line needed is based on the restoration that is planned. Bevels are rarely indicated except for full gold crowns, and feathered or knife edges are usually contraindicated due to overcontouring of the crown near the margin.

### Question: 10

NBDE Part-1 Case Study 10

Age: 39

Gender: Female

Height: 5'4"

Weight: 127

BP: 130/78

Chief Complaint: Teeth appear yellow and are sensitive

Medical History: Gastroesophageal reflux disease

Current Medications: Prevacid

Social History: Patient works in the post office as a part-time clerk.

Scenario: The patient just recently began treating her GERD condition. She presents with wear facets in the incisal cusps of the molars. Thinning of the enamel in the upper anterior incisors is noted.

Consequences of severe reflux disease may cause the patient to develop this complication that includes intestinal metaplasia within squamous epithelium of the esophagus.

- A. Warthin's tumor
- B. Mesothelioma
- C. Barrett's esophagus
- D. Rupture of the varices
- E. Mucoepidermoid carcinoma

**Answer: C**

Explanation:

Barrett's esophagus is a complication of chronic GERD. It increases the incidence of adenocarcinoma, stricture formations, and hemorrhage.

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