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ADC Australian Dental Council Part I (ADC Part I)

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Question: 1

Multiple myeloma will:
check all answers that apply

- A. Appear as punched out radiolucencies or soap bubbles
- B. Appear as dense radiopaque areas and striated bone
- C. Present with symptoms of anemia
- D. Present symptoms of gingival hyperplasia
- E. Is found more often in Caucasians

Answer: A,C

Explanation:

Multiple myeloma occurs more frequently in black males. Symptoms of anemia, bone pain, pathologic fractures and renal insufficiency will be present. Radiographically, it will appear as multiple punched out radiolucencies and bubbles.

Question: 2

These cell wall synthesis inhibitors are narrow spectrum penicillins.
check all answers that apply

- A. Penicillin G
- B. Dicloxacillin
- C. Ampicillin
- D. Methicillin
- E. Carbenicillin
- F. Nafcillin

Answer: B,D,F

Explanation:

These are narrow spectrum penicillins that are the same as penicillin except they are beta lactamase resistant because of bulkier R-groups. They are used on S. aureus.

Question: 3

What reflex helps prevent pulmonary edema?
check all answers that apply

- A. Autoregulation
- B. LaPlace's
- C. Frank-Starling
- D. Bainbridge
- E. Circuit
- F. Ejection

Answer: D

Explanation:

The Bainbridge Reflex helps prevent pulmonary edema by pumping blood from the pulmonary system to the systemic system. It is regulated by the stretch receptors in the atria which affect the sensitivity and pressure of receptor cells.

Question: 4

The maximum amount of 2% lidocaine with a 1:100,000 epinephrine that can be administered to a healthy 150 pound adult is approximately how many cartridges?
check all answers that apply

- A. 7
- B. 11
- C. 13
- D. 15
- E. 17

Answer: C

Explanation:

A healthy, 150 pound adult can be administered a maximum amount of 477mg of 2%, 1:100,000 lidocaine. This equates to about 13 cartridges of lidocaine.

Question: 5

NBDE Part 2 Case Study 5

Age: 74

Gender: Male

Height: 5'7"

Weight: 132

BP: 132/78

Chief Complaint: "My dentures don't fit well anymore, and I have a sore that keeps bothering me."

Medical History: Type 2 diabetes. He reports his doctor "burning off" a small area of skin cancer on his nose this past summer. He also states that he has had a bothersome sinus infection for the past few weeks.

Current Medications: Glipizide, Amoxicillin

Social History: The patient has been a farmer for the past 45 years. He smokes a pipe a few times a day.

Scenario: The patient appears to have a fissure at the labial commissure. There is also evidence of candida infection on the surface of the tongue.

Suppose there was no removable plaque, but only a red atrophic area on the midline of the dorsal surface of the tongue. What condition would this be?

- A. Denture stomatitis
- B. Hyperplastic candidiasis
- C. Central papillary atrophy
- D. Candidal leukoplakia
- E. Papilloma

Answer: C

Explanation:

Central papillary atrophy appears as red area that is positioned along the midline at the back of the tongue. It is also known by the easily recognizable name, median rhomboid glossitis.

Question: 6

What 3 buffers function as part of the renal acid-base balance system?
check all answers that apply

- A. Glycine
- B. Bicarbonate
- C. Hemoglobin
- D. Albumin
- E. Ammonia

Answer: B,C,D

Explanation:

Bicarbonate, hemoglobin, and albumin are the 3 buffers that affect acid-base balances, with sodium bicarbonate being the primary buffer of carbonic acid. It functions in both extracellular fluid and blood to break down CO₂ and H₂O along with respiratory elimination.

Question: 7

NBDE Part 2 Case Study 1

Age: 54

Gender: Male

Height: 6'1"

Weight: 220

BP: 154/89

Chief Complaint: "My gums look very strange. They seem to be growing along the front of my mouth."

Medical History: History of cardiovascular disease. The patient suffered from a heart attack 8 months ago. His doctor recently changed his medication."

Current Medications: Aspirin, Verapamil

History: The patient is a full time instructor at the local community college. He recently joined a bike club and enjoys biking 2-3 times a week in an attempt to improve his health and lifestyle.

Scenario: This medically compromised patient is under the care of a cardiac specialist to monitor his heart disease condition. At the request of his doctor he will receive antibiotic prophylaxis during any invasive or minimally invasive dental procedure. Clinically, the patient has evidence of diffuse gingival hyperplasia caused by his medication.

Although the patient's blood pressure is higher than the healthy range, it is at normal levels for this patient when he is under the effects of prescription medication. Which of the following is correct?
check all answers that apply

- A. The patient's systolic levels indicate stage II hypertension
- B. The patient's systolic levels indicate stage I hypertension
- C. The patient's systolic levels indicate stage III hypertension
- D. The patient's diastolic levels indicate high normal readings
- E. The patient's diastolic levels indicate stage I hypertension

Answer: A,E

Explanation:

When systolic blood pressure readings are 140 or higher, it falls within the stage II hypertension category. Diastolic readings that are between 80-89 are considered stage I.

Question: 8

Which of the following radiographic signs may indicate trauma from occlusion?
check all answers that apply

- A. A narrowing of the lamina dura
- B. Widening of the PDL
- C. Root resorption
- D. Hypocementosis
- E. Angular bone loss
- F. Infrabony pocket formation

Answer: B,C,E,F

Explanation:

Occlusion trauma can be seen on radiographs by possible thickening of the lamina dura, widening of the PDL space, root resorption, hypercementosis, angular bone loss and infrabony pocket formation. Occlusion has little significance in the etiology of periodontal disease, but it could be a contributing factor.

Question: 9

Which saliva gland produces only a serous secretion?

check all answers that apply

- A. Submandibular
- B. Parotid
- C. Sublingual
- D. Labial
- E. Anterior lingual

Answer: B

Explanation:

The parotid gland secretes only serous solutions. it secretes saliva through the Stenson's duct. The only other salivary gland to secrete only serous saliva is the von Ebner's gland.

Question: 10

The most confusing term in prosthodontics.

- A. Freeway space
- B. Centric occlusion
- C. Vertical dimension of occlusion
- D. Centric relation
- E. Vertical dimension of rest

Answer: D

Explanation:

Centric relation is considered to be the most confusing prosthodontic term. There are as many as 7 different definitions given. The relationship is a repeatable position to which the patient can be restored.

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