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Dental

MJDF-PART-1

Membership of the Joint Dental Faculty - Part 1 (MJDF Part I)



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Question: 1

Which nephron structure is responsible for the formation of filtrate?
check all answers that apply

- A. Proximal tubule
- B. Late distal tubule
- C. Medullary collecting duct
- D. Ascending thin loop of Henle
- E. Bowman capsule

Answer: E

Explanation:

The bowman capsule is made up of glomerular capillaries and serves the basic function of formation of filtrate. The other portions of the nephron are related to the reabsorption of solutes or H₂O.

Question: 2

Blood flow occurs in what order?
check all answers that apply

- A. Arteriole - Artery - Capillary - Venule - Vein
- B. Venule - Vein - Capillary - Arteriole - Artery
- C. Capillary - Arteriole - Artery - Vein - Venule
- D. Venule - Vein - Artery - Arteriole - Capillary
- E. Vein - Venule - Capillary - Arteriole - Artery
- F. Artery - Arteriole - Capillary - Venule - Vein

Answer: F

Explanation:

In blood flow, initial pumping from the heart begins as it is excreted into the arteries, to the arterioles, and then to the capillaries and turned back to the venule and veins. Remember that blood circulation functions to bring oxygen throughout the body, so it must start with newly oxygenated blood in the arteries being transported to other portions of the body.

Question: 3

What tooth has a prominent lingual ridge that splits the lingual fossa into the mesial and distal fossae?
check all answers that apply

- A. Maxillary lateral incisor
- B. Maxillary canine
- C. Maxillary first bicuspid
- D. Maxillary second bicuspid
- E. Mandibular lateral incisor
- F. Mandibular canine

Answer: B

Explanation:

The maxillary canine has a prominent lingual ridge, splitting the mesial and distal fossa from the lingual fossa. It has a prominent central cingulum and a cusp tip that is located slightly mesiofacial.

Question: 4

Which contact is always located more incisally?
check all answers that apply

- A. Mesial
- B. Buccal
- C. Distal
- D. Lingual
- E. Incisal

Answer: A

Explanation:

The mesial contact of all teeth is always located more incisally than the distal contact is. Over time, attrition will create larger contact areas and smaller embrasure spaces.

Question: 5

The difference between hemophilia A and hemophilia B, is that only hemophilia A:
check all answers that apply

- A. Can result in excessive bleeding
- B. Is not sex linked
- C. Involves antihemophilic factor
- D. Involves plasma thromboplastin component
- E. Blood smear
- F. Is a deficiency of factor VIII

Answer: A,C,F

Explanation:

Type A can result in excessive bleeding. The only laboratory step that can determine whether a person has Hemophilia A or B is performing an assay on the levels of coagulation factors. Type A will have a deficiency of factor VIII (antihemophilic factor) in the conducted labs.

Question: 6

The patient states that she flosses twice each day with an electric toothbrush, but her gums continue to bleed. She previously had no history of bleeding gums. What is the likely cause?
check all answers that apply

- A. Delay in prophylactic treatment
- B. Pregnancy
- C. Not brushing correctly
- D. Hormonal influences
- E. Periodontal disease

Answer: B,C

Explanation:

The patient is likely suffering from pregnancy gingivitis. She has no history of periodontal disease and the symptoms appear generalized, even though she has good brushing habits. The symptoms will likely subside after the birth of her child.

Question: 7

Which tonsils contain no lymph, sinuses, or crypts?
check all answers that apply

- A. Lingual
- B. Palatine
- C. Lateral palatine
- D. Pharyngeal
- E. Posterior

Answer: D

Explanation:

The pharyngeal tonsils, also known as adenoids, are located in the nasopharynx. They do not contain any lymph, sinuses, or crypts that other types of tonsils do. They're covered partially by epithelium and partially by connective tissue.

Question: 8

Which type of disinfectant disrupts cell membranes but is rarely used because of its causticity?

check all answers that apply

- A. Chlorine
- B. Ammonium
- C. Phenols
- D. Iodophors
- E. Tricolsan

Answer: C

Explanation:

Phenols are a form of disinfectants that disrupt cell membranes and denatures proteins. They are not used today due to their extreme causticity. The other two disinfectants that are still used are quarternary ammonium compounds and chlorine.

Question: 9

What stage of wound repair starts at 2-3 weeks after an injury and continues indefinitely?

check all answers that apply

- A. Inflammatory
- B. Epithelial migration
- C. Fibroplastic
- D. Fibrogen formation
- E. Angiogenesis
- F. Remodeling

Answer: F

Explanation:

The remodeling stage is the 3rd and final stage of wound repair. It begins 2-3 weeks after the injury and continues indefinitely. During this stage, epithelial stratification is restored, the wound contracts, and the scar is formed.

Question: 10

The first ____ sets of ribs are true ribs, attaching directly to the sternum?

check all answers that apply

- A. 6
- B. 7
- C. 8
- D. 9
- E. 10
- F. 11

Answer: B

Explanation:

The first seven sets of ribs are true ribs. That is they attach directly to the sternum. Sets 8-10 are false ribs which are only indirectly attached to the sternum. Rib sets 11 and 12 are floating ribs that are not attached at all.

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