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**QUESTION 1**

A 35-year-old man comes to the physician because of pain and swelling of his right arm where he scraped it on a tree branch 2 days ago. His temperature is 38.3°C (101°F). Examination of the right forearm shows edema around a fluctuant erythematous lesion at the site of trauma. The area is extremely tender to palpation. Which of the following is most likely the primary mechanism of the development of edema in this patient?

- A. Degranulation of eosinophils
- B. Disruption of vascular basement membranes
- C. Increased hydrostatic pressure
- D. Release of thromboxane
- E. Separation of endothelial junctions

Correct Answer: E

QUESTION 2

Juxtaglomerular cells combine with _____ cells to form the juxtaglomerular apparatus in the kidney.

- A. Macula densa
- B. Renal pelvis
- C. Nephron
- D. Renal sinus

Correct Answer: A

QUESTION 3

A 14-year-old girl with a 9-year history of type 1 diabetes mellitus is brought to the physician by her mother for a follow-up examination. She has been admitted to the hospital twice in the past 3 months because of diabetic ketoacidosis. She previously had been compliant with monitoring her blood glucose concentration and with her diet and insulin regimen. She acknowledges that, when she is with her peers, she eats whatever she wants and does not check her blood glucose concentration. She adds, "I'm embarrassed to inject myself in front of them." The physician is having a great deal of difficulty with her 15-year-old son who has been truant from school and sneaking out of the house. She says to the patient, "You should be ashamed for not taking care of yourself. We've all worked so hard to keep you healthy." Which of the following terms best describes the physician's reaction to the patient?

- A. Countertransference
- B. Identification with the aggressor



- C. Projection
- D. Splitting
- E. Sublimation

Correct Answer: A

QUESTION 4

Which of the following syndromes corresponds to: excessive movement occurring at joints and loose skin?

- A. Reiter's syndrome
- B. Sjogren's syndrome
- C. Kartagener's syndrome
- D. Ehlers-Danlos syndrome

Correct Answer: D

QUESTION 5

A patient arrives in the emergency department after having been stabbed. He has sustained a penetrating wound in the left fourth intercostal space immediately lateral to the sternal border. Which of the following thoracic structures is most likely to have been injured?

- A. Left atrium
- B. Left ventricle
- C. Right atrium
- D. Right ventricle
- E. Upper lobe of the left lung

Correct Answer: D

Explanation:

The right ventricle forms most of the anterior wall of the heart and extends from approximately the right border of the sternum to approximately 2 inches to the left of the sternum at the level of the fourth intercostal space. The left atrium forms the posterior wall of the heart. The only portion of the left atrium seen on the anterior surface of the heart is the left auricular appendage, which is at the level of the second intercostal space on the left. The left ventricle forms most of the left border of the heart and the diaphragmatic surface of the heart. It forms the anterior wall of the heart in a region from approximately 2-3 inches from the left border of the sternum from the third to the fifth intercostal space. The right atrium forms the right border of the heart. Its anterior surface is on the right side of the sternum from approximately the



third rib to the sixth rib. The left lung is displaced away from the sternum on the left side by the presence of the heart.

QUESTION 6

Which of the following is not considered a part of the male urethra?

- A. Prostatic
- B. Membranous
- C. Vasapore
- D. Penile

Correct Answer: C

QUESTION 7

A 26-year-old man is brought to the emergency department by ambulance 30 minutes after being shot in the leg. He is unconscious and appears markedly pale. His pulse is 120/min, respirations are 16/min, and blood pressure is 80/60 mmHg. Compared with a healthy adult, which of the following findings is most likely in this patient?

A.	Arterial Baroreceptor Firing Rate ↑	Systemic Vascular Resistance ↑	Pulmonary Vascular Resistance ↑	Systemic Capillary Fluid Transfer filtration
B.	Arterial Baroreceptor Firing Rate ↑	Systemic Vascular Resistance ↓	Pulmonary Vascular Resistance ↑	Systemic Capillary Fluid Transfer absorption
C.	Arterial Baroreceptor Firing Rate ↑	Systemic Vascular Resistance ↓	Pulmonary Vascular Resistance ↓	Systemic Capillary Fluid Transfer filtration
D.	Arterial Baroreceptor Firing Rate ↓	Systemic Vascular Resistance ↑	Pulmonary Vascular Resistance ↑	Systemic Capillary Fluid Transfer absorption
E.	Arterial Baroreceptor Firing Rate ↓	Systemic Vascular Resistance ↑	Pulmonary Vascular Resistance ↓	Systemic Capillary Fluid Transfer filtration
F.	Arterial Baroreceptor Firing Rate ↓	Systemic Vascular Resistance ↓	Pulmonary Vascular Resistance ↓	Systemic Capillary Fluid Transfer absorption

A. Option A



B. Option B

C. Option C

D. Option D

E. Option E

F. Option F

Correct Answer: D

QUESTION 8

A drug ending in the suffix (azole) is considered a _____.

A. H

B. ACE inhibitor

C. Antifungal D. Beta agonist

Correct Answer: C

QUESTION 9

Which of the following diseases and bacteria are matched up incorrectly?

A. Treponema pallidum – Syphilis

B. Tineanigra – Cladosporiumwerneckii

C. Borreliaburgdorferi – Lyme disease

D. Yersinia enterocolitica – Diphtheria

Correct Answer: D

QUESTION 10

Which of the following is considered a xanthine?

A. Acetylcysteine

B. Guaifenesin



C. Theophylline

D. Epinephrine HCL

Correct Answer: C

QUESTION 11

Which of the following is not considered a catecholamine?

A. Dopamine

B. Norepinephrine

C. Serotonin

D. Epinephrine

Correct Answer: C

QUESTION 12

Which of the following are not treated with Nifedipine?

A. Angina

B. Arrhythmias

C. Htn

D. Fluid retention

Correct Answer: D

QUESTION 13

Which of the following is paired correctly?

A. A-G

B. C-G

C. A-U

D. G-T



Correct Answer: B

QUESTION 14

Vitamin D is created from _____ by skin cells.

- A. Dehydrocholesterol
- B. Cholesterol
- C. Hydrocholesterol
- D. Hydrodermis

Correct Answer: A

QUESTION 15

Lansoprazole is not used in which of the following cases?

- A. Gastritis
- B. Peptic Ulcers
- C. Zollinger-Ellison syndrome
- D. Thalamus hypertrophy

Correct Answer: D

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