

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

Release of which of the following substances causes vasodilation and increased capillary permeability during anaphylactic shock?

Select one:

- a. c. Nitric oxide
- b. e. Adenosine
- c. d. Atrial natriuretic factor
- d. b. Bradykinin
- e. a. Histamine ✓

Your answer is correct.

The correct answer is: a. Histamine

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Increasing vagal stimulation of the heart will cause an increase in

Select one:

- a. Cardiac output
- b. Heart rate ✘
- c. PR interval
- d. Ventricular contractility
- e. Ejection fraction

Your answer is incorrect.

The correct answer is: PR interval

Question **3**

Incorrect

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🚩 Flag question

Q-10 Which one of the following drugs generally should NOT be administered to a patient with asthma?

Select one:

- a. c. Epinephrine
- b. b. Propranolol
- c. e. Digitalis **×**
- d. a. Atropine
- e. d. Isoproterenol

Your answer is incorrect.

The correct answer is: b.
Propranolol

Question **4**

Correct

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🚩 Flag question

What is the most common etiology of heart failure?

Select one:

- a. e. Hypertension
- b. a. Ischemic ✓
- c. c. Viral cardiomyopathy
- d. d. Drug-induced
- e. b. Idiopathic, unknown cause

Your answer is correct.

The correct answer is: a. Ischemic




hospital emergency room after
severing a major artery in a
motorcycle

accident. It is estimated that he has
lost approximately 700 ml of blood.
His blood pressure is 90/55 mm

Hg. Which of the following sets of
changes would be expected in
response to hemorrhage in this man?

Heart rate Sympathetic activity
Total peripheral resistance

Select one:

- a. ↑ ↓ ↑
- b. ↑ ↑ ↓ 
- c. ↑ ↓ ↓
- d. ↑ ↑ ↑
- e. ↓ ↓ ↓

Your answer is incorrect.

The correct answer is: ↑ ↑ ↑



Question **6**

Incorrect

Mark 0.00 out of 1.00

🚩 Flag question

The heat transfer mechanism that occurs between arteries and veins in a countercurrent exchange is called what?

Select one:

- a. a. Conduction ❌
- b. c. Radiation
- c. b. Convection
- d. e. Condensation
- e. d. Evaporation

Your answer is incorrect.

The correct answer is: b.

Convection

Question **7**

Correct

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Due to allergic reaction a person is having nasal and lacrimal secretions, the parasympathetic nerve fibers responsible for this action pass through which nerve:

Select one:

- a. a. 3rd
- b. c. 9th
- c. b. 7th ✓
- d. e. 10th
- e. d. 7th & 10th

Your answer is correct.

The correct answer is: b. 7th

Question 8

Correct

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🚩 Flag question

A 28 year old female presented to the Emergency with fever and vasculitis. On examination gram negative endotoxin present. Which of the following is the first factor causing

Select one:

- a. b. IL-1 ✓
- b. a. TGF- beta
- c. c. TNF
- d. d. TGF-alpha
- e. e. IL-3

Your answer is correct.

The correct answer is: b. IL-1

Question 9

Correct

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🚩 Flag question

Which one of the following is the best index of preload?

Select one:

- a. . Left ventricular end-diastolic volume ✓
- b. Pulmonary capillary wedge pressure
- c. Blood volume
- d. Left ventricular end-systolic volume
- e. Central venous pressure

Your answer is correct.

The correct answer is: . Left ventricular end-diastolic volume

Which of the following is a human thermoregulatory response controlled by cholinergic sympathetics?

Select one:

- a. c. Shivering thermogenesis
- b. d. Sweat secretion ✓
- c. e. Thermoregulatory behavior
- d. b. Hand vasomotion
- e. a. Brown adipose tissue thermogenesis

Your answer is correct.

The correct answer is: d. Sweat secretion

Which of the following often occur during progressive shock?

Select one:

- a. b. Decreased tendency for blood to clot ❌
- b. c. Increased glucose metabolism
- c. e. Decreased capillary permeability
- d. a. Patchy areas of necrosis in the liver
- e. d. Decreased release of hydrolases by lysosomes

Your answer is incorrect.

The correct answer is: a. Patchy areas of necrosis in the liver

Question **12**

Incorrect

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🚩 Flag question

Capillary permeability is lowest in:

Select one:

- a. b. Brain
- b. c. Liver
- c. a. Kidney
- d. d. Spleen
- e. e. Skin **✗**

Your answer is incorrect.

The correct answer is: b. Brain

Question **13**

Incorrect

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🚩 Flag question

Acclimatization to a hot environment includes the following change in sweat

Select one:

- a. e. More concentrated
- b. d. More volatile ✖
- c. b. More salty
- d. c. More oily
- e. a. More dilute

Your answer is incorrect.

The correct answer is: a. More dilute

Select one:

- a. b. The symptoms include permanent circulatory impairment and local tissue damage followed by gangrene.
- b. d. Hyperthermia is often caused by disordered calcium metabolism in skeletal myocytes..
- c. e. Hyperthermia of 105°F to 108°F is likely to be associated with multiorgan failure ✓
- d. a. When the body temperature rises beyond a critical temperature, into the range of 101°F to 103°F, heatstroke is likely to develop
- e. c. Diminished temperature regulation is that the rate of chemical heat production in each cell is depressed almost twofold for each 10°F decrease in body temperature



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During exercise, skeletal muscle blood flow increases 15-25 times the resting value. This increase is mainly due to:

Select one:

- a. a. Increase in arterial blood pressure
- b. c. Local metabolic factors
- c. e. Stimulation of sympathetic vasodilator nerves
- d. d. Stimulation of sympathetic vasoconstrictor nerves **✘**
- e. b. Increased secretion of catecholamines

Your answer is incorrect.

The correct answer is: c. Local metabolic factors

Question **16**

Incorrect

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🚩 Flag question

Sustained elevation of cardiac output will occur with which of the following conditions?

Select one:

- a. Cardiac tamponade
- b. Hypertension **✘**
- c. Anemia
- d. Third-degree heart block
- e. Aortic regurgitation

Your answer is incorrect.

The correct answer is: Anemia

Correct

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🚩 Flag question

In which of the following conditions would you normally expect to find a decreased cardiac output?

Select one:

- a. a. Anemia
- b. a. A-V fistula
- c. a. Acute myocardial infarction ✓
- d. a. Hyperthyroidism
- e. a. Beriberi

Your answer is correct.

The correct answer is: a. Acute myocardial infarction

Question **18**

Correct

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🚩 Flag question

In which type of shock does cardiac output often increase?

Select one:

- a. a. Anaphylactic shock
- b. a. Cardiogenic shock
- c. a. Hemorrhagic shock
- d. a. Neurogenic shock
- e. a. Septic shock ✓

Your answer is correct.

The correct answer is: a. Septic shock

Question **19**

Incorrect

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🚩 Flag question

Which of the following often occurs in decompensated heart failure?

Select one:

- a. a. Orthopnea
- b. a. Decreased mean systemic filling pressure
- c. a. Increased renal loss of sodium and water ❌
- d. a. Weight loss
- e. a. Increased norepinephrine in cardiac sympathetic nerves

Your answer is incorrect.

The correct answer is: a.
Orthopnea



During mild exertion, a 70-year-old man experiences an ischemia-induced myocardial infarction and dies from ventricular fibrillation. In this patient, what factor was most likely to increase the tendency of the heart to fibrillate after the infarction?

Select one:

- a. a. A more negative ventricular membrane potential
- b. a. Low potassium concentration in the heart extracellular fluid ❌
- c. a. Current of injury from the damaged area
- d. a. A decrease in ventricular diameter
- e. a. Increased parasympathetic stimulation of the heart

Your answer is incorrect.

The correct answer is: a. Current of

injury from the damaged area



Flag question

Which one of the following will be observed in a patient with a dilated failing left ventricle and a normal resting mean blood pressure?

Select one:

- a. A decreased heart rate
- b. An increased left ventricular ejection fraction **✘**
- c. A decreased left ventricular energy consumption
- d. A decreased left ventricular wall stress
- e. An increased pulmonary capillary hydrostatic pressure

Your answer is incorrect.

The correct answer is: An increased pulmonary capillary hydrostatic pressure

The gain or loss of heat as infrared energy between two objects that are not in physical contact with each other is called what?

Select one:

- a. e. Condensation
- b. a. Conduction ❌
- c. c. Radiation
- d. b. Convection
- e. d. Evaporation

Your answer is incorrect.

The correct answer is: c. Radiation

The most common part of body which is effected by frostbite is:

Select one:

- a. d. Feet ❌
- b. c. Arm
- c. a. Toes
- d. e. Hands
- e. b. Nose

Your answer is incorrect.

The correct answer is: a. Toes

Correct

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🚩 Flag question

An increase in which of the following would tend to increase lymph flow?

Select one:

- a. e. A and C ✓
- b. a. Hydraulic conductivity of the capillary wall
- c. b. Plasma colloid osmotic pressure
- d. c. Capillary hydrostatic pressure
- e. d. Arteriolar resistance

Your answer is correct.

The correct answer is: e. A and C



When the environmental temperature increases moderately, what happens to blood flow to the skin?

Select one:

- a. e. It increases as the metabolic needs of the skin tissue increase
- b. a. It decreases to stop the transport of heat from the skin surface to deeper tissues
- c. c. It increases because the sweat glands release vasodilators
- d. b. It decreases because the local thermoreceptors in the skin sense an increase in body temperature
- e. d. It increases as part of the body temperature regulatory mechanisms ✓

Your answer is correct.

The correct answer is: d. It increases as part of the body temperature regulatory mechanisms

Question **26**

Incorrect

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🚩 Flag question

Which one of the following would have maximum cardiac index?

Select one:

- a. c. A 35 years old lady
- b. e. A 70 years old female
- c. b. A 10 years old boy
- d. a. A 2 years old child ❌
- e. d. A 50 years old male

Your answer is incorrect.

The correct answer is: b. A 10 years old boy

Which of the following normally causes either renal sodium or water retention during compensated heart failure?

Select one:

- a. d. Increased glomerular filtration rate ✘
- b. e. Decreased ADH formation
- c. b. Increased aldosterone formation
- d. a. Decreased angiotensin II formation
- e. c. Sympathetic vasodilation of the afferent arterioles

Your answer is incorrect.

The correct answer is: b. Increased aldosterone formation



. During aerobic exercise, blood flow remains relatively constant within

Select one:

- a. The kidneys
- b. The brain
- c. The skeletal muscles
- d. The skin ✘
- e. The heart

Your answer is incorrect.

The correct answer is: The brain

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Stimulation of which one of the following receptors causes vasoconstriction?

Select one:

- a. b. β 2-adrenoceptors
- b. e. Muscrinic receptors ✘
- c. c. α -adrenoceptors
- d. d. Nicotinic receptor
- e. a. β 1-adrenoceptors

Your answer is incorrect.

The correct answer is: c. α -adrenoceptors

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Question **30**

Correct

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The functions of which of the following is only controlled by the sympathetic nervous system?

Select one:

- a. d. Salivary glands
- b. c. Gastrointestinal gland secretion
- c. a. Systemic blood vessels
✓
- d. e. Gastrointestinal motility
- e. b. Heart

Your answer is correct.

The correct answer is: a. Systemic blood vessels

Question **31**

Correct

Mark 1.00 out of 1.00

🚩 Flag question

By which process tyrosine convert into Dopa:

Select one:

- a. d. Methylation
- b. e. Hydrolyzation
- c. C. Decarboxylation
- d. a. Carboxylation
- e. B. Hydroxylation ✓

Your answer is correct.

The correct answer is: B.
Hydroxylation

Which organ of the body do not have well formed lymphatic channels?

Select one:

- a. d. Genitourinary tract ❌
- b. e. Lower respiratory tract
- c. b. Central nervous system
- d. a. Gastrointestinal tract
- e. c. Upper respiratory tract

Your answer is incorrect.

The correct answer is: b. Central nervous system

At birth, changes that occur in the fetal **circulation** include

Select one:

- a. Increased systemic arterial pressure ✓
- b. Decreased left atrial pressure
- c. Decreased pulmonary blood flow
- d. Increased pulmonary arterial pressure
- e. Increased pulmonary vascular resistance

Your answer is correct.

The correct answer is: Increased systemic arterial pressure

Question **34**

Incorrect

Mark 0.00 out of 1.00

🚩 Flag question

Q-12 Cerebral capillaries in the brain are directly vasodilated by:

Select one:

- a. e. Carbonic acid
- b. b. Hydrogen ions
- c. d. Neural input
- d. a. Carbon dioxide **✗**
- e. c. Oxygen

Your answer is incorrect.

The correct answer is: b. Hydrogen ions



Flag question

The main neurotransmitter of autonomic nervous system is:

Select one:

- a. b. Nor Adrenaline
- b. e. Dopamine
- c. c. Acetylcholine
- d. d. Serotonin
- e. a. Adrenaline ✘

Your answer is incorrect.

The correct answer is: c.
Acetylcholine

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Question **36**

Incorrect

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🚩 Flag question

A person during eye examination was given a drug to dilate his pupils in order to have a clear vision. What could be the constituent of that drug which leads to dilation of pupil.

Select one:

- a. a. Sympathomimetic drug
- b. e. Beta blocker
- c. d. Parasympatholytic drug
- d. c. Parasympathomimetic drug ✘
- e. b. Sympatholytic drug

Your answer is incorrect.

The correct answer is: a.

Sympathomimetic drug

Correct

Mark 1.00 out of 1.00

🚩 Flag question

Which of the following will elevate the plateau of the cardiac output curve?

Select one:

- a. a. Increasing sympathetic stimulation of the heart ✓
- b. a. Cardiac tamponade
- c. a. Placing a patient on a mechanical ventilator
- d. a. Increasing parasympathetic stimulation of the heart
- e. a. Surgically opening the thoracic cage

Your answer is correct.

The correct answer is: a. Increasing sympathetic stimulation of the heart

which one of the following is main function of splanchnic circulation?

Select one:

- a. c. Heat loss
- b. b. Blood reservoir ✓
- c. a. Hemostasis
- d. e. Water balance
- e. d. Acid base balance

Your answer is correct.

The correct answer is: b. Blood reservoir

Question **39**

Incorrect

Mark 0.00 out of 1.00

🚩 Flag question

In hypovolemic shock the decreased in CO is due to :

Select one:

- a. b. Reduced venous return
×
- b. c. Failure of myocardial pump
- c. a. Inadequate blood/plasma volume
- d. e. Both b & d
- e. d. Both a & b

Your answer is incorrect.

The correct answer is: d. Both a & b

Incorrect

Mark 0.00 out of 1.00

🚩 Flag question

If a patient undergoing spinal anesthesia experiences a large decrease in arterial pressure and goes into shock, which of the following would be the therapy of choice?

Select one:

- a. a. Blood infusion
- b. a. Plasma infusion ❌
- c. a. Saline infusion
- d. a. Glucocorticoid infusion
- e. a. Infusion of sympathomimetic drug

Your answer is incorrect.

The correct answer is: a. Infusion of sympathomimetic drug

The adrenal gland and its
autonomic innervations due to
following reason?

Select one:

- a. e. It is considered as itself as a parasympathetic ganglion
- b. d. It is directly innervated by the lateral horn of spinal cord without passing through ganglia.
- c. c. The post-synaptic response is mediated via muscarinic acetylcholine receptors.
- d. b. The postganglionic neurons are cholinergic rather than noradrenergic despite being part of the sympathetic nervous system.
- e. a. It is innervated by parasympathetic cholinergic preganglionic neurons. ✘

Your answer is incorrect.

The correct answer is: d. It is directly innervated by the lateral horn of spinal cord without passing through ganglia

Which of the following is the feature is common for both sympathetic & parasympathetic nervous system?

Select one:

- a. a. They have long preganglionic fibers
- b. d. They both have muscarinic receptors on their autonomic ganglions
- c. b. They have short postganglionic fibers
- d. e. They both have postganglionic adrenergic receptors ✘
- e. c. They both have nicotinic receptors on autonomic ganglions

Your answer is incorrect.

The correct answer is: d. They both have muscarinic receptors on their autonomic ganglions



Which of the following normally occur in unilateral right heart failure?

Select one:

- a. a. Increased left atrial pressure
- b. a. Increased pulmonary artery pressure
- c. a. Pulmonary edema ✖
- d. a. Increased mean pulmonary filling pressure
- e. a. Increased right atrial pressure

Your answer is incorrect.

The correct answer is: a. Increased right atrial pressure



The sweat gland and piloerector muscles of hairy skin are innervated by which type of fibers?

Select one:

- a. e. Cholinergic preganglionic sympathetic fibers
✘
- b. b. Adrenergic postganglionic parasympathetic fibers
- c. a. Cholinergic postganglionic parasympathetic fibers
- d. c. Adrenergic postganglionic sympathetic fibers
- e. d. Cholinergic postganglionic sympathetic fibers

Your answer is incorrect.

The correct answer is: d.

Cholinergic postganglionic sympathetic fibers

A 65-year-old man is suffering from congestive heart failure. He has a cardiac output of 4 L/min, arterial pressure of 115/85 mm Hg, and a heart rate of 90 beats/min. Further tests by a cardiologist reveal that the patient has a right atrial pressure of 10 mm Hg. An increase in which of the following would be expected in this patient?

Select one:

- a. d. Cardiac output ✘
- b. a. Plasma colloid osmotic pressure
- c. c. Arterial pressure
- d. e. Mean systemic filling pressure
- e. b. Interstitial colloid osmotic pressure

Your answer is incorrect.

The correct answer is: e. Mean systemic filling pressure



A 24 year old student went for hiking in the Sahara Desert. The environmental temperature is 105°F and the relative humidity is 20%. Which of the following is the major mechanism of heat loss in this situation?

Select one:

- a. e. Radiation
- b. a. Conduction of air ❌
- c. d. Evaporation
- d. b. Conduction to object
- e. c. Convection

Your answer is incorrect.

The correct answer is: d.

Evaporation



During fetal life, the blood vessel having maximum oxygenated blood is:

Select one:


- a. d. Umbilical vein ✓
- b. a. Aorta
- c. c. Pulmonary artery
- d. e. Umbilical artery
- e. b. Ductus arteriosus

Your answer is correct.

The correct answer is: d. Umbilical vein



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 Flag question

Which of the following vasoactive agents is usually the most important controller of coronary blood flow?

Select one:

- a. d. Carbon dioxide
- b. e. Potassium ions
- c. b. Bradykinin
- d. c. Prostaglandins
- e. a. Adenosine

Your answer is incorrect.

The correct answer is: a.
Adenosine

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Core temperature is elevated during fever and exercise. What distinguishes the rise in core temperature during fever from that during exercise?

Select one:

- a. e. Increased thermal setpoint
- b. b. Reduced sweat formation
- c. d. Reduced skin blood flow
- d. a. Increased basal metabolic rate
- e. c. Non-shivering thermogenesis

Your answer is incorrect.

The correct answer is: e. Increased thermal setpoint

Question **50**

Not answered

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🚩 Flag question

Stroke volume can be decreased by

Select one:

- a. Increasing heart rate
- b. Decreasing systemic blood pressure
- c. Decreasing total peripheral resistance
- d. Increasing central venous pressure
- e. Increasing ventricular contractility

Your answer is incorrect.

The correct answer is: Increasing heart rate