

Chapter 37 Circulatory Respiratory Systems Test A

Answers

In ambient pressure diving, the diver is directly exposed to the pressure of the surrounding water. The ambient pressure diver may dive on breath-hold (freediving... 9cacbee9e9

Underwater diving "Fatal Respiratory Failure Underwater diving, as a human activity, is the practice of descending below the water's surface to interact with the environment. A. (2001), Chapter 5 Table 5. It is also often referred to as diving, an ambiguous term with several possible meanings, depending on context. ; Meintjes, W. Jack; Britz, Hermie C. (2007). ; Cronjé, Frans J. Mitchell, Simon J. 2 Air Purity Standards 9cacbee9e9

Acute bronchitis usually has a cough that lasts around three weeks, and is also known as a chest cold. In more than 90% of cases, the cause is a viral infection. These viruses may be spread through the air when people cough or by direct contact. A small number of cases are caused by a bacterial infection such as *Mycoplasma pneumoniae* or *Bordetella pertussis*. Risk factors include exposure to tobacco smoke, dust, and other air pollution... 9cacbee9e9

Ozone It is a pale-blue gas with a distinctively pungent odor. Ozone is formed from dioxygen by the action of ultraviolet (UV) light and electrical discharges within the Earth's atmosphere. significant positive associations between chronic ozone and all-cause, circulatory, and respiratory mortality with 2%, 3%, and 12% increases in risk per 10 ppb and Ozone (), also called trioxygen, is an inorganic molecule with the chemical formula O₃. It is present in very low concentrations throughout the atmosphere, with its highest concentration high in the ozone layer of the stratosphere, which absorbs most of the Sun's ultraviolet (UV) radiation. It is an allotrope of oxygen that is much less stable than the diatomic allotrope O₂, breaking down in the lower atmosphere to O₂

(dioxygen) 9cacbee9e9

The insect nervous system consists of a brain and a ventral nerve cord. Most insects reproduce by laying eggs. Insects breathe air through a system of paired openings along their sides, connected to small tubes that take air directly to the tissues. The blood therefore does not carry oxygen; it is only partly contained in vessels, and some circulates in an open hemocoel... 9cacbee9e9

Heparin It can be given intravenously or by injection under the skin. Its anticoagulant properties make it useful to prevent blood clotting in blood specimen test tubes and kidney dialysis machines. thus preventing thrombus from dislodging from these devices into the circulatory system. Heparin is a blood anticoagulant that increases the activity of antithrombin. It is used in the treatment of heart attacks and unstable angina. Unfractionated heparin is used in hemodialysis. Compared to low-molecular-weight Heparin, also known as unfractionated heparin (UFH), is a medication and naturally occurring glycosaminoglycan 9cacbee9e9

Common side effects include bleeding, pain at the injection site, and low blood platelets. Serious side effects include heparin-induced thrombocytopenia. Greater care is needed in those with poor kidney function. 9cacbee9e9 The amphetamine molecule exists as two enantiomers, levoamphetamine and dextroamphetamine. Dextroamphetamine is the dextrorotatory, or 'right-handed', enantiomer and exhibits more pronounced effects on the central nervous system than levoamphetamine. Pharmaceutical dextroamphetamine sulfate is available as both a brand name and generic drug in a variety of dosage forms. Dextroamphetamine is sometimes prescribed... 9cacbee9e9

Adderall It is a central nervous system (CNS) stimulant of the phenethylamine class. The mixture is composed of equal parts racemic amphetamine and dextroamphetamine, which produces a (3:1) ratio between dextroamphetamine and levoamphetamine, the two enantiomers of amphetamine. Both enantiomers are stimulants, but differ enough to give Adderall an effects profile distinct from those of racemic amphetamine or dextroamphetamine. In Sydor A, Brown RY (eds. "Chapter 6: Widely Projecting Systems: Monoamines, Acetylcholine, and Orexin".). (2009). Molecular Neuropharmacology: A Foundation Adderall and Mydayis are trade names for a combination drug containing four salts of amphetamine. Adderall is indicated in the treatment of attention deficit hyperactivity disorder (ADHD) and narcolepsy. It is also used illicitly as an athletic performance enhancer,

cognitive enhancer, appetite suppressant, and recreationally as a euphoriant 9cacbee9e9

Bronchitis The infection then makes its way down to the bronchi. Bronchitis can be acute or chronic. Bronchitis usually begins as an infection in the nose, ears, throat, or sinuses. antibiotics in acute bronchitis. Chronic bronchitis is a lower respiratory tract disease, defined by a productive cough that lasts for three months or more Bronchitis is inflammation of the bronchi (large and medium-sized airways) in the lungs that causes coughing. Symptoms include coughing up sputum, wheezing, shortness of breath, and chest pain 9cacbee9e9

In therapeutic doses, Adderall causes... 9cacbee9e9

Dextroamphetamine (2009). "Chapter 6: Widely Projecting Systems: Monoamines, Acetylcholine, and Orexin". In Sydor A, Brown RY (eds. It is also used illicitly to enhance cognitive and athletic performance, and recreationally as an aphrodisiac and euphoriant. Dextroamphetamine is generally regarded as the prototypical stimulant. *Molecular Neuropharmacology: A Foundation* Dextroamphetamine is a potent central nervous system (CNS) stimulant and enantiomer of amphetamine that is used in the treatment of attention deficit hyperactivity disorder (ADHD) and narcolepsy.) 9cacbee9e9

Arthropod In order to keep growing, they must go through stages of moulting, a process by which they shed their exoskeleton to reveal a new one. An arthropod has an open circulatory system, with a body cavity called a haemocoel through which haemolymph circulates to the Arthropods (AR-thrə-pod) are invertebrates in the phylum Arthropoda. They form an extremely diverse group of up to ten million species. They possess an exoskeleton with a cuticle made of chitin, often mineralised with calcium carbonate, a body with differentiated (metameric) segments, and paired jointed appendages. blood for most arthropods 9cacbee9e9

Haemolymph is the analogue of blood for most arthropods. An arthropod has an open circulatory system, with a body cavity called a haemocoel through which haemolymph circulates to the interior organs. Like their exteriors, the internal organs of arthropods are generally built of repeated segments. They have ladder-like nervous systems, with paired... 9cacbee9e9 Ozone's odor is reminiscent of chlorine, and detectable by many people at concentrations of as little as 0.1 ppm in air. Ozone's O₃ structure was

determined in 1865. The molecule was... 9cacbee9e9

Echinoderm Haemal and perihemal systems are derived from An echinoderm () is any animal of the phylum Echinodermata (), which includes starfish, brittle stars, sea urchins, sand dollars and sea cucumbers, as well as the sessile sea lilies or "stone lilies". The first definitive echinoderms appeared near the start of the Cambrian. While bilaterally symmetrical as larvae, as adults echinoderms are recognisable by their usually five-pointed radial symmetry (pentamerous symmetry), and are found on the sea bed at every ocean depth from the intertidal zone to the abyssal zone. The phylum contains about 7,600 living species, making it the second-largest group of deuterostomes after the chordates, as well as the largest marine-only phylum. water vascular system) and a haemal circulatory system, as most groups of animals have just one of the two 9cacbee9e9

Heparin is contraindicated for suspected cases of vaccine-induced pro-thrombotic immune thrombocytopenia (VIPIT) secondary to SARS-CoV-2 vaccination... 9cacbee9e9

Amphetamine The term is frequently used informally to refer to any combination of the enantiomers, or to either of them alone. Molecular Neuropharmacology: A Foundation Amphetamine is a central nervous system (CNS) stimulant that is used in the treatment of attention deficit hyperactivity disorder (ADHD), narcolepsy, and obesity; it is also used to treat binge eating disorder in the form of its inactive prodrug lisdexamfetamine. In Sydor A, Brown RY (eds. "Chapter 6: Widely Projecting Systems: Monoamines, Acetylcholine, and Orexin". Historically, it has been used to treat nasal congestion and depression. (2009). Amphetamine was discovered as a chemical in 1887 by Lazăr Edeleanu, and then as a drug in the late 1920s. It exists as two enantiomers: levoamphetamine and dextroamphetamine. Amphetamine properly refers to a specific chemical, the racemic free base, which is equal parts of the two enantiomers in their pure amine forms. Amphetamine is also used as.) 9cacbee9e9

Insect They are the largest group within the arthropod phylum. The insect circulatory system is open; it has no Insects (from Latin insectum) are hexapod invertebrates of the class Insecta. via tracheoles, the circulatory system is not used to carry oxygen, and is therefore greatly reduced. Insects have a chitinous exoskeleton, a three-part body (head, thorax and abdomen), three pairs of jointed legs, compound eyes, and a pair of antennae. Insects are the most diverse group of animals, with more than a million

described species; they represent more than half of all animal species 9cacbee9e9

Immersion in water and exposure to high ambient pressure have physiological effects that limit the depths and duration possible in ambient pressure diving. Humans are not physiologically and anatomically well-adapted to the environmental conditions of diving, and various equipment has been developed to extend the depth and duration of human dives, and allow different types of work to be done. 9cacbee9e9 Echinoderms are important both ecologically and geologically. Ecologically, there are few other groupings so abundant... 9cacbee9e9

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