

AFNS TEST 19-20 September 2025

Question: Which law explains the relationship between pressure and volume of a gas at constant temperature?

Correct Answer: Boyle's Law

Explanation: Boyle's law states that at constant temperature, pressure is inversely proportional to volume ($P \propto 1/V$).

Related Question 1: Which law relates volume and temperature?

Correct Answer: Charles's Law

Related Question 2: Which law combines Boyle's and Charles's laws?

Correct Answer: Ideal gas law



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ARMED FORCES NURSING SERVICES



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AFNS TEST 19-20 September 2025

Question: Which vitamin is also called calciferol?

Correct Answer: Vitamin D

Explanation: Vitamin D helps regulate calcium absorption and is essential for bone strength.

Related Question 1: Which vitamin is also called ascorbic acid?

Correct Answer: Vitamin C

Related Question 2: Which disease is caused by Vitamin D deficiency?

Correct Answer: Rickets

AFNS TEST 19-20 September 2025

Question: In grammar, what is the function of an infinitive?

Correct Answer: To act as a noun, adjective, or adverb

Explanation: An infinitive is the base form of a verb preceded by "to," and it can function as subject, object, or modifier.

Related Question 1: Identify the infinitive: "She wants to dance."

Correct Answer: to dance

Related Question 2: Identify function: "To study hard is important."

Correct Answer: Subject

AFNS TEST 19-20 September 2025

Question: What is the unit of electric charge?

Correct Answer: Coulomb (C)

Explanation: One coulomb equals the charge transported by one ampere in one second.

Related Question 1: What is the charge of an electron?

Correct Answer: -1.6×10^{-19} C

Related Question 2: What is the SI unit of current?

Correct Answer: Ampere

AFNS TEST 19-20 September 2025

Question: Which element has the highest electronegativity?

Correct Answer: Fluorine

Explanation: Fluorine has the highest electronegativity (3.98 on Pauling scale), making it the strongest oxidizing element.

Related Question 1: Which element has the lowest electronegativity?

Correct Answer: Cesium

Related Question 2: Electronegativity generally increases in which direction of the periodic table?

Correct Answer: Across a period (left to right)

AFNS TEST 19-20 September 2025

Question: Which part of the brain controls balance and coordination?

Correct Answer: Cerebellum

Explanation: The cerebellum regulates motor control, balance, and posture by coordinating muscular activity.

Related Question 1: Which part of the brain controls heartbeat and breathing?

Correct Answer: Medulla oblongata

Related Question 2: Which part of the brain is called the “seat of intelligence”?

Correct Answer: Cerebrum

AFNS TEST 19-20 September 2025

Question: In SHM, the restoring force is directly proportional to what?

Correct Answer: Displacement

Explanation: Restoring force $F = -kx$ acts opposite to displacement, ensuring oscillatory motion.

Related Question 1: What is the restoring force in a pendulum due to?

Correct Answer: Component of gravity

Related Question 2: What is the restoring force in a spring?

Correct Answer: Elastic force

AFNS TEST 19-20 September 2025

Question: Which literary device is used in the sentence: "The classroom was a zoo"?

Correct Answer: Metaphor

Explanation: A metaphor compares two unlike things directly without using "like" or "as," here equating classroom with zoo.

Related Question 1: Which device uses "like" or "as" for comparison?

Correct Answer: Simile

Related Question 2: Which device gives human qualities to non-human things?

Correct Answer: Personification

AFNS TEST 19-20 September 2025

Question: Which law of motion explains the concept of inertia?

Correct Answer: Newton's First Law

Explanation: Newton's First Law states that a body continues in its state of rest or uniform motion unless acted upon by an external force, which defines inertia.

Related Question 1: Who is known as the father of classical mechanics?

Correct Answer: Isaac Newton

Related Question 2: What is inertia of rest?

Correct Answer: Tendency of a body to remain at rest

AFNS TEST 19-20 September 2025

Question: What is the frequency range of human hearing?

Correct Answer: 20 Hz to 20,000 Hz

Explanation: Humans can detect sound waves only within this frequency range, below 20 Hz are infrasonic and above 20,000 Hz are ultrasonic.

Related Question 1: What type of waves are sound waves?

Correct Answer: Longitudinal waves

Related Question 2: Which animal can hear ultrasonic sounds?

Correct Answer: Bats

AFNS TEST 19-20 September 2025

Question: Which compound is known as quicklime?

Correct Answer: Calcium oxide (CaO)

Explanation: Calcium oxide is called quicklime and is widely used in cement, steel, and glass industries.

Related Question 1: What is slaked lime?

Correct Answer: Calcium hydroxide (Ca(OH)_2)

Related Question 2: Which gas is released when quicklime reacts with water?

Correct Answer: None, it forms slaked lime with heat

AFNS TEST 19-20 September 2025

Question: Which blood cells are responsible for immunity?

Correct Answer: White blood cells (WBCs)

Explanation: WBCs defend the body against infections by producing antibodies and engulfing pathogens.

Related Question 1: Which WBC produces antibodies?

Correct Answer: B lymphocytes

Related Question 2: Which pigment is present in red blood cells?

Correct Answer: Hemoglobin

AFNS TEST 19-20 September 2025

Question: Which figure of speech is used in “She sells seashells by the seashore”?

Correct Answer: Alliteration

Explanation: Alliteration is the repetition of consonant sounds at the beginning of words, here “s” sound is repeated.

Related Question 1: Which figure of speech is repetition of vowel sounds?

Correct Answer: Assonance

Related Question 2: Which figure of speech exaggerates for effect?

Correct Answer: Hyperbole

AFNS TEST 19-20 September 2025

Question: What is the main function of mitochondria?

Correct Answer: Production of ATP (energy)

Explanation: Mitochondria are known as the powerhouse of the cell because they produce ATP through aerobic respiration.

Related Question 1: Which organelle is responsible for photosynthesis?

Correct Answer: Chloroplast

Related Question 2: What is the genetic material in mitochondria?

Correct Answer: Circular DNA

AFNS TEST 19-20 September 2025

Question: What is the chemical name of common salt?

Correct Answer: Sodium chloride (NaCl)

Explanation: Common salt, used in food, is an ionic compound made of sodium and chloride ions.

Related Question 1: Which acid reacts with NaOH to form common salt?

Correct Answer: Hydrochloric acid (HCl)

Related Question 2: What is the pH of neutral NaCl solution?

Correct Answer: 7

AFNS TEST 19-20 September 2025

Question: Which tense is used in the sentence "I have finished my work"?

Correct Answer: Present perfect tense

Explanation: Present perfect tense uses "have/has + past participle" to show actions completed with relevance to the present.

Related Question 1: Identify tense: "She had gone before I came."

Correct Answer: Past perfect tense

Related Question 2: Identify tense: "They will have arrived by evening."

Correct Answer: Future perfect tense

AFNS TEST 19-20 September 2025

Question: Which organ in the human body purifies blood?

Correct Answer: Kidneys

Explanation: Kidneys filter out waste products from blood, maintaining water and electrolyte balance.

Related Question 1: What is the functional unit of kidney?

Correct Answer: Nephron

Related Question 2: Which waste is excreted by kidneys?

Correct Answer: Urea