

ATI TEAS 7 Exam Test Bank 300 Questions with Answers 2023/24 update (A+ Guide)

- How are carbohydrates used by the body? Choose ALL answers that apply.
 - structure
 - Communication
 - storage
 - Recognition
- What type of immunity does a vaccine provide? Choose only ONE best answer.
 - naturally acquired passive immunity
 - Artificially acquired passive immunity
 - Naturally acquired active immunity
 - Artificially acquired active immunity
- Which organs and/or glands are superior to the liver? Choose ALL answers that apply.
 - Lungs
 - Parathyroid gland
 - Kidneys
 - Thymus
- Which cavity contains all of the frontal cavities? Choose only ONE best answer.
 - Dorsal
 - Thoracic
 - Abdominopelvic
 - Ventral
- Which of the following carry oxygenated blood? Choose ALL answers that apply.
 - Pulmonary artery
 - Pulmonary vein

- **Aorta**
- **Superior vena cava**
- **Which of the following are disaccharides? Choose ALL answers that apply.**
 - **Sucrose**
 - **Glucose**
 - **Cellulose**
 - **Lactose**
- **Which body system is responsible for the transport of dissolved oxygen from the lungstothe spleen?**
 - Immune
 - Endocrine
 - Respiratory
 - **Cardiovascular**
- **Which condition can lead to blood clots and stroke?**

Written by jamesmuthomi26

- Aneurysm
- **Arrhythmia**
- Asthma
- Hypertension
- **A botanist wants to determine if environmental temperature affects root growth. In her experiment, she creates 4 rooms at temperatures that vary by 5 degrees F. Each room gets20 seedlings of the same species, which she**

grows on agar plates for 60 days. Once a day, she measures the length of each seedling's root. At the end of 60 days, she compares the length of the roots with the room temperature. She finds the room with the lowest temperature produced the longest roots.

What is the independent variable in this study?

- **Temperature**
- Seedlings
- Light
- Root length

• Which of the following can act as enzymes in the body?

- **Globular proteins**
- **Lipase**
- **Amylase**
- **Glucagon**

• Which of the following is the carbohydrate monomer?

- Disaccharide
- Lactose
- **Monosaccharide**
- Thymine

• Which of the following are true about water?

- **Water has polar covalent bonds.**
- **Water has a neutral pH of 7.**
- Water has a low specific heat capacity.
- **Water as a solid is less dense than water as a liquid.**

- **Hydrophobic proteins often provide which function in the body?**
 - Digestive enzymes
 - **Provide structure**
 - Carry oxygen molecules
 - Store energy

- **Which of the following have a smaller genetic scale than a chromosome?**
 - Genome
 - **Gene**
 - **DNA**
 - All of the above

- **What best measures the volume of a solid?**
 - Triple beam balance
 - **Measuring wheel and mathematical formula**
 - Graduated cylinder
 - Measuring wheel

- **What cavities are in the ventral cavity of the human body?**
 - **Thoracic Cavity**
 - **Abdominal Cavity**
 - Cranial Cavity

 - **Pelvic Cavity**

- **Which is the largest part of the airway?**
 - Alveoli
 - Bronchi
 - Bronchioles
 - **Trachea**
- **Which of the following is an effect of high blood pressure?**
 - Smoking
 - Excessive dietary salt
 - **Renal vessel damage**
 - Older age
- **What is the monomer for nucleic acids?**
 - **Nucleotide**
 - Amino acid
 - Phosphate group
 - Ribosome

Written by jamesmuthomi26

Temperature (F)	Root Length (CM) after 1 Hour
28	72
32	64
40	62
46	70

- Consider the graph which represents a botanist's data of root growth. What is the independent variable?
 - **Temperature**
 - Root tissue
 - Light exposure
 - Root length
- **What type of tissue protects the respiratory system's trachea?**

- Bone
 - **Cartilage**
 - Collagen
 - Keratin
- **Which of the following are examples of covalent bonds?**
 - **H O₂**
 - NaCl

 - **C H₆ 12 6O**
 - MgO
 -
- **Which of the following is an example of Mendelian inheritance?**
 - Incomplete Dominance
 - Polygenic Alleles
 - Combination Inheritance
 - **Recessive Inheritance**
- **Which of the following are globular proteins?**
 - **Antibody**
 - **Enzyme**
 - **Hemoglobin**
 - Keratin
- **What type of bond connects amino acids?**
 - Covalent
 - **Peptide**
 - Ionic
 - Hydrogen

Written by jamesmuthomi26

- **What is the name for a microorganism that lives on or in the human body and normally causes no disease or harm?**
 - Bacteria
 - **Commensal Microorganism**
 - Microorganism
 - Host

- **of the following infectious diseases can be caused by a viral infection?**
 - **COVID-19**
 - **Varicella**
 - **Mumps**
 - **Measles**

- **You are a nursing student and are triaging a patient. Which of the following is an example of quantitative data you can gather?**
 - The patients say he feels pain.
 - The patient says he has stabbing pain in his right lower abdomen.
 - **The patient's temperature is 101.7 degrees F.**
 - The patient reports that he had a fever yesterday

- **Which of the following are examples of steroids in the human body?**
 - **Cholesterol**

- **Testosterone**
 - **Cortisol**
 - **Estradiol**
-
- **What of the following factors influence the rate of a chemical reaction?**
 - Temperature
 - Pressure
 - Concentration of reactants and substrate
 - Any catalysts
-
- **Which of the following infectious diseases can be caused by bacteria?**
 - **Tuberculosis**
 - **Cholera**
 - **Varicella**
 - **Influenza**
-
- **During which of the following stages does crossing over occur?**
 - Mitosis Prophase
 - **Meiosis Prophase I**

 - Meiosis Prophase II
 - Interphase
-
- **Which of the following is correct based on anatomical terms?**
 - The shoulder joint is proximal to the neck.
 - The elbow joint is superior to the shoulder.
 - The thoracic vertebrae are superior to the cervical vertebrae.
 - **The thumb is on the lateral aspect of the hand.**

- Which of the following is a genetic condition that affects the respiratory system?
 - Asthma
 - Cystic fibrosis
 - Mycosis
 - Surfactant Deficiency
- A particular atom is uncharged, and it has an electron configuration of $1s^2 2s^2 2p^6 3s^2$ and a mass number of 14. How many protons does it have?
 - 14
 - 6
 - 8
 - 12
- Which of the following describes the term allele?
 - A base-pair substitution in DNA
 - An inheritable variation of a gene
 - A grouping of various genes
 - Variations of complementary base pairs
- Which of the following is part of the cardiovascular system?
 - Blood vessels
 - Brain
 - Kidneys
 - Lungs
- Which of the following are possible effects of obesity?
 - Reduced exercise
 - Joint and body pain
 - Hypertension
 - Diabetes

- **Which of the following factors does not strengthen a scientific argument?**
 - Lack of bias.
 - **Extensive use of qualitative research and data.**
 - Able to be reproduced and repeated by others.
 - Withstands the test of time
- **Which of the following are functions of the kidneys?**
- **Make urine and maintain water homeostasis**
 - **Help maintain blood pressure**
 - Synthesize Vitamin D
 - **Filter blood of salt, nutrients, water, and waste**
- **Which of the following correctly orders the layers of the epidermis from most superficial to deepest?**
 - S. spinosa, S. Basale, S. corneum, S. granulosum, S. lucidum
 - **S. corneum, S. lucidum, S. granulosum, S. spinosum, S. Basale**
 - S. corneum, S. spinosum, S. Basale, S. granulosum, S. lucidum
 - S. Basale, S. spinosum, S. granulosum, S. lucidum, S. corneum
- **What of the following statements is true about an allergic reaction?**
 - An allergic reaction, like hives or wheezing breath, is the result of overactive body systems like the integumentary system and respiratory system.
 - An allergic reaction is a function of overactive B-cells in the body, which release various immunoglobulins.
 - **An allergic reaction is a function of overactive mast cells in the body, which are stimulated by Immunoglobulin E.**
 - An allergic reaction involves proteins like histamine, keratin and collagen.