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QUESTION 1

Pea plants can self-pollinate (sperm and eggs both come from the same plant) or they can cross-pollinate (sperm and eggs come from different plants). Gregor Mendel used this to study heredity. He found that if he took a plant that only produced yellow peas and crossed it with a plant that only produced green peas, all the offspring would only produce yellow peas. On the other hand, if he left the offspring (all yellow pea plants) alone and let them self-pollinate, then the second generation had a ratio of 3:1 yellow to green pea plants. Thus, Mendel could demonstrate that some traits are "dominant" while others are "recessive."

Referring to this passage, what could Gregor Mendel conclude from the result of his experiment with green and yellow pea plants?

- A. Green peas are a recessive trait.
- B. Pea plants have carbohydrates, like starch, that are coded for by their DNA.
- C. Inbreeding of pea plants causes mutations.
- D. All traits come in pairs and there is always a dominant trait and a recessive trait.

Correct Answer: A

QUESTION 2

Which valve is found between the left atrium and the left ventricle?

- A. the tricuspid valve
- B. the pulmonary valve
- C. the aortic valve
- D. the mitral valve

Correct Answer: D

QUESTION 3

Maturation and development of T cells takes place in which region?

- A. spleen
- B. bone marrow
- C. lymph nodes
- D. thymus gland

Correct Answer: D

QUESTION 4

Which of these is not a lymphoid organ?

- A. thymus
- B. tonsils
- C. liver
- D. spleen

Correct Answer: C

QUESTION 5

Which of the following correctly lists the cellular hierarchy from the simplest to the most complex structure?

- A. organ system, organism, organ, tissue, cell
- B. cell, tissue, organ, organ system, organism
- C. tissue, cell, organ, organ system, organism
- D. organism, organ system, organ, tissue, cell

Correct Answer: B

The cellular hierarchy starts with the cell, the simplest structure, and progresses to organisms, the most complex structures.

QUESTION 6

A ball is tied to a pole with a rope and is moving in a circle with constant speed.

Which of these statements about the ball is true?

- A. Force is acting away from the center of circle.
- B. Force is acting at a tangent to the circle.
- C. There is no acceleration.
- D. There is force acting toward the center of circle.

Correct Answer: D

QUESTION 7

Which of these is not a part of the central nervous system?

- A. spinal cord
- B. tract (bundle of nerve fibers/axons)
- C. brain
- D. cranial nerves

Correct Answer: D

QUESTION 8

Prokaryotic and eukaryotic cells are similar in having which of the following?

- A. Presence of a nucleus
- B. Protein-studded DNA
- C. Integral membrane proteins in the plasma membrane
- D. Membrane-bound organelles

Correct Answer: D

Both prokaryotes and eukaryotes interact with the extracellular environment and use membrane-bound or membrane-associated proteins to achieve this. They both use diffusion and active transport to move materials in and out of their cells. Prokaryotes have very few proteins associated with their DNA, whereas eukaryotes' DNA is richly studded with proteins. Both types of living things can have flagella, although with different structural characteristics in the two groups. The most important differences between prokaryotes and eukaryotes are the lack of a nucleus and membrane-bound organelles in prokaryotes.

QUESTION 9

Phalanges are bones present in which parts of the body?

- A. fingers and toes
- B. cranium/skull
- C. fingers only
- D. ears

Correct Answer: A

QUESTION 10

Which layer of the skin contains hair follicles, sweat glands, and nerves?

- A. the dermis

- B. the subcutaneous layer
- C. the basal layer
- D. the epidermis

Correct Answer: A

QUESTION 11

A large amount of energy is produced in the center of sun by which phenomenon?

- A. chemical reaction
- B. nuclear fission
- C. nuclear fusion
- D. radioactive decay

Correct Answer: C

QUESTION 12

Which of these statements regarding the "oxygen debt" created during heavy exercise is true?

- A. Oxygen debt is created due to build-up of acetic acid in the muscles, which needs a high level of oxygen to be oxidized.
- B. Oxygen debt is created due to build-up of lactic acid in the muscles, which needs a high level of oxygen to be oxidized.
- C. Oxygen debt is created due to build-up of lactic acid in the liver, which needs a high level of oxygen to be stored.
- D. Oxygen debt is created due to build-up of lactic acid in the muscles, which needs a high level of carbon dioxide to be oxidized.

Correct Answer: B

QUESTION 13

When does the nuclear division of somatic cells take place during cellular reproduction?

- A. mitosis
- B. meiosis
- C. cytokinesis
- D. interphase

Correct Answer: A

The nuclear division of somatic cells takes place during mitosis.

QUESTION 14

Which of these groups of physical quantities consists only of scalars?

- A. time, velocity, force
- B. mass, velocity, acceleration
- C. speed, weight, acceleration
- D. mass, speed, time

Correct Answer: D

QUESTION 15

Large lymphatic trunks unite to form which two main vessels of the lymphatic system?

- A. thoracic duct and superior vena cava
- B. right lymphatic duct and thoracic duct
- C. left lymphatic duct and thoracic duct
- D. right lymphatic duct and left subclavian vein

Correct Answer: B

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