

1. When the chromosomes line up in mitosis this is known as which phase?

- A. Telophase
- B. Anaphase
- C. Metaphase
- D. Prophase

2. Which cellular organelle contains enzymes that are considered digestive?

- A. Golgi Apparatus
- B. Lysosomes
- C. Nucleus
- D. Ribosomes

3. Organs repair themselves through a process of?

- A. Meiosis
- B. Mitosis
- C. Cellular differentiation
- D. Transformation

4. Which of the following is considered a model for enzyme action?

- A. Lock and Key model
- B. Enzyme interaction model
- C. Transformation model
- D. Transcription model

5. Which of the following statements about enzymes is not true?

- A. Enzymes are catalysts.
- B. Almost all enzymes are proteins.
- C. Enzymes operate most efficiently at optimum pH.
- D. Enzymes are destroyed during chemical reactions.

6. Which of the following statements about prostaglandins is not true?

- A. Prostaglandins promote inflammation.
- B. Prostaglandins can only constrict blood vessels.
- C. Prostaglandins are made in the renal medulla.
- D. Prostaglandins can lead to pain and fever.

7. Cholesterol that is known as (LDL) stands for:

- A. Low-density lipoproteins
- B. Low-density lysosomes
- C. Level-density lipoproteins
- D. Level-density lysosomes

8. Hardening of the arteries is known as:

- A. Atherosclerosis
- B. Venous narrowing
- C. Micro-circulation
- D. Hypertension

9. Litmus paper that is blue will turn/stay \_\_\_\_\_ in the presence of a strong base.

- A. Orange
- B. Red
- C. Blue
- D. Green

10. Breathing properly requires the presence of what compound that affects surface tension of alveoli in the lungs?

- A. Potassium
- B. Plasma
- C. Surfactant
- D. Sodium Chloride

11. Which of the following is not considered a function of the kidneys?

- A. Secretion

- B. Reabsorption
- C. Transport
- D. Filtration

12. The functional unit of the kidney is known as?

- A. Medulla
- B. Glomerulus
- C. Pyramid
- D. Nephron

13. Which of the following formulas indicate the ideal gas law?

- A.  $PV = knT$  or  $PV = RnT$
- B.  $V = kT$
- C.  $PV = k$
- D.  $KTV = PR$

14. Which of the following is not considered a characteristic or property of a gas?

- A. Volume
- B. Mass
- C. Pressure
- D. Particles

15. Which of the following is described in the definition: An object immersed in a fluid is buoyed up by a force equal to the weight of the fluid displaced by the object?

- A. Archimedes' principle
- B. Charles' law
- C. Boyle's law
- D. Anderson's principle

16. Liquids that evaporate quickly are known as \_\_\_\_\_ liquids.

- A. Viscous
- B. Volatile
- C. Evaporative
- D. Transient

17. High frequency sound waves are known as:

- A. Fundamental waves
- B. Overtones
- C. Consonance waves
- D. Dissonance waves

18. What anatomical structure connects the stomach and the mouth?

- A. Trachea
- B. Spinal column

C. Hepatic duct

D. Esophagus

Answer Key

1. C

2. B

3. B

4. A

5. D

6. B

7. A

8. A

9. C

10. C

11. C

12. D

13. A

14. D

15. A

16. B

17. B

18. D