

Ultimate Science Quiz (Biology: Heart, Circulatory, Respiratory, Inheritance)

Multiple Choice

1. What is the function of the heart?
 - a) Digests food
 - b) Pumps blood
 - c) Filters air
 - d) Produces hormones
2. Which valve prevents backflow to the right atrium?
 - a) Mitral
 - b) Tricuspid
 - c) Pulmonary
 - d) Aortic
3. Which blood vessel has the thickest wall?
 - a) Vein
 - b) Capillary
 - c) Artery
 - d) Venule
4. What is the largest artery in the body?
 - a) Pulmonary artery
 - b) Aorta
 - c) Vena cava
 - d) Bronchi
5. Which organ is the common passageway for air?
 - a) Larynx
 - b) Nose
 - c) Trachea
 - d) Alveoli
6. What contracts when inhaling?
 - a) Lungs
 - b) Diaphragm
 - c) Heart
 - d) Bronchioles

7. Which cell division produces gametes?
 - a) Mitosis
 - b) Meiosis
 - c) Binary fission
 - d) Budding
8. What is the diploid number of human chromosomes?
 - a) 23
 - b) 46
 - c) 7
 - d) 92
9. Who is the Father of Genetics?
 - a) Darwin
 - b) Mendel
 - c) Watson
 - d) Crick
10. Which is a carrier of genes?
 - a) Chromosome
 - b) Ribosome
 - c) Mitochondria
 - d) Lysosome
11. What is the smallest vein?
 - a) Venule
 - b) Vena cava
 - c) Capillary
 - d) Arteriole
12. Which is NOT a respiratory organ?
 - a) Pharynx
 - b) Bronchi
 - c) Kidney
 - d) Alveoli
13. What is the mechanical movement of air to the lungs?
 - a) Respiration
 - b) Breathing
 - c) Digestion
 - d) Circulation
14. Which chromosome group contains sex chromosomes?
 - a) A
 - b) G

- c) Genosomes
- d) F

15. Which is expressed only if two alleles are present?

- a) Dominant
 - b) Codominant
 - c) Recessive
 - d) Incomplete
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Enumeration

- 16. Enumerate the four valves of the heart.
 - 17. List three respiratory organs.
 - 18. Name three types of blood vessels.
 - 19. List the steps of interphase.
 - 20. Enumerate the two types of cell division.
 - 21. List the two types of chromosomes in humans.
 - 22. Name three terms related to inheritance.
 - 23. Enumerate the two types of cells in humans.
 - 24. List the seven groups of human chromosomes.
 - 25. Name three types of alleles.
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Identification

- 36. Identify: The process of pumping blood throughout the body.
 - 37. Identify: Prevents backflow of blood in the heart.
 - 38. Identify: The largest vein in the body.
 - 39. Identify: The thinnest blood vessel.
 - 40. Identify: The process of transporting oxygen and expelling carbon dioxide.
 - 41. Identify: The organelle that contains DNA.
 - 42. Identify: The number of chromosomes in human gametes.
 - 43. Identify: The phase where genetic material is duplicated.
 - 44. Identify: The type of cell division for body cells.
 - 45. Identify: The scientist who studied garden peas.
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More Multiple Choice

- 46. Which is a difference between prokaryote and eukaryote chromosomes?
 - a) Prokaryote chromosomes are in the nucleus
 - b) Eukaryote chromosomes are in the cytoplasm
 - c) Prokaryote chromosomes are in the nucleoid
 - d) Both are in mitochondria

47. What is the function of histones?
- a) Digest proteins
 - b) Wind up DNA
 - c) Carry oxygen
 - d) Pump blood
48. Which is a codominant trait?
- a) Only one allele expressed
 - b) Both alleles expressed
 - c) Neither allele expressed
 - d) Third phenotype introduced
49. What is the main function of alveoli?
- a) Pump blood
 - b) Gas exchange
 - c) Filter air
 - d) Produce hormones
50. Which cell type is diploid?
- a) Gamete
 - b) Somatic
 - c) Haploid
 - d) Genosome