

Medical Knowledge Essentials

Medicine · Practice Test · 25 Questions

1. Which organ in the human body is primarily responsible for filtering waste products from the blood?

- A) Liver
- B) Kidneys
- C) Spleen
- D) Pancreas

2. What is the primary function of white blood cells in the immune system?

- A) Transporting oxygen
- B) Clotting blood
- C) Fighting infections
- D) Storing energy

3. Which vitamin is primarily produced in the skin when exposed to sunlight?

- A) Vitamin C
- B) Vitamin D
- C) Vitamin B12
- D) Vitamin K

4. What is the medical term for a high blood pressure condition?

- A) Hypotension
- B) Tachycardia
- C) Hypertension
- D) Bradycardia

5. Which part of the brain is responsible for regulating balance and coordination?

- A) Cerebrum
- B) Cerebellum
- C) Brain stem
- D) Hypothalamus

6. What type of pathogen causes diseases like the flu and the common cold?

- A) Bacteria
- B) Virus
- C) Fungus
- D) Parasite

7. Which substance gives red blood cells their ability to carry oxygen throughout the body?

- A) Hemoglobin
- B) Plasma
- C) Platelets
- D) Myoglobin

8. What is the primary purpose of a vaccine?

- A) To cure an active infection
- B) To trigger an immune response without causing disease
- C) To act as a painkiller
- D) To increase body temperature

9. Which blood type is known as the 'universal donor'?

- A) A+
- B) B-
- C) AB+
- D) O-

10. What is the largest organ in the human body by surface area?

- A) Liver
- B) Skin
- C) Lungs
- D) Large intestine

11. What condition occurs when there is a deficiency of red blood cells or hemoglobin?

- A) Anemia
- B) Leukemia
- C) Diabetes
- D) Arthritis

12. Which endocrine gland is often called the 'master gland' because it controls other glands?

- A) Thyroid
- B) Adrenal
- C) Pituitary
- D) Pineal

13. What is the chemical name for the process by which cells convert glucose into energy?

- A) Photosynthesis
- B) Respiration
- C) Fermentation
- D) Digestion

14. Which mineral is essential for the healthy formation of bones and teeth?

- A) Iron
- B) Calcium
- C) Zinc
- D) Magnesium

15. What is the main function of the alveoli in the lungs?

- A) Filtering dust
- B) Producing mucus
- C) Gas exchange
- D) Pumping blood

16. Which medical field focuses on the study and treatment of cancer?

- A) Cardiology
- B) Oncology
- C) Neurology
- D) Dermatology

17. What is the 'powerhouse' organelle within a cell that generates chemical energy?

- A) Nucleus
- B) Ribosome
- C) Mitochondria
- D) Lysosome

18. Which system of the body is responsible for transporting hormones to various parts of the body?

- A) Digestive system
- B) Nervous system
- C) Endocrine system
- D) Respiratory system

19. How many chambers does the human heart have?

- A) Two
- B) Three
- C) Four
- D) Five

20. What is the technical term for the 'voice box' located in the neck?

- A) Trachea
- B) Pharynx
- C) Larynx
- D) Esophagus

21. Which nutrient is the body's primary source of quick energy?

- A) Proteins
- B) Fats
- C) Carbohydrates
- D) Vitamins

22. Which condition is characterized by the body's inability to produce or properly use insulin?

- A) Asthma
- B) Diabetes
- C) Epilepsy
- D) Anemia

23. What is the function of platelets in the human blood?

- A) Fighting bacteria
- B) Clotting blood
- C) Carrying carbon dioxide
- D) Producing antibodies

24. Which part of the eye is responsible for focusing light onto the retina?

- A) Pupil
- B) Iris
- C) Lens
- D) Cornea

25. What is the name of the bone located in the upper arm?

- A) Femur
- B) Humerus
- C) Tibia
- D) Radius