

## **Medical Questions and Answers - Combined Topics**

**Q1. Name the longest bone in the human body.**

Ans: The femur.

**Q2. What is the function of the cerebellum?**

Ans: Coordination of voluntary movements and balance.

**Q3. Which organ is responsible for filtering blood in the human body?**

Ans: The kidneys.

**Q4. Name the layers of the heart wall.**

Ans: Epicardium, myocardium, and endocardium.

**Q5. What is the normal number of ribs in the human body?**

Ans: 24 ribs (12 pairs).

**Q6. What is the normal pH range of blood?**

Ans: 7.35 to 7.45.

**Q7. Which hormone regulates the sleep-wake cycle?**

Ans: Melatonin.

**Q8. Define tidal volume.**

Ans: It is the amount of air inhaled or exhaled during normal breathing (~500 mL).

**Q9. Name the pacemaker of the heart.**

Ans: Sinoatrial (SA) node.

**Q10. Which part of the brain controls body temperature?**

Ans: The hypothalamus.

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**Q11. What is the antidote for heparin overdose?**

Ans: Protamine sulfate.

**Q12. What class of drug is amlodipine?**

Ans: Calcium channel blocker.

**Q13. Name a common side effect of opioids.**

Ans: Constipation.

**Q14. Which drug is used in the treatment of tuberculosis?**

Ans: Isoniazid.

**Q15. What is the mechanism of action of NSAIDs?**

Ans: Inhibition of cyclooxygenase enzymes (COX-1 and COX-2).

**Q16. What is anemia?**

Ans: A condition where there is a decrease in the number of red blood cells or hemoglobin.

**Q17. Name a common type of leukemia in children.**

Ans: Acute lymphoblastic leukemia (ALL).

**Q18. What is the hallmark of acute inflammation?**

Ans: Neutrophilic infiltration.

**Q19. Define necrosis.**

Ans: Uncontrolled cell death due to injury.

**Q20. What is the primary cause of myocardial infarction?**

Ans: Occlusion of coronary artery due to atherosclerosis.

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**Q21. What type of microorganism causes tuberculosis?**

Ans: Bacteria - Mycobacterium tuberculosis.

**Q22. Name a gram-positive cocci.**

Ans: Staphylococcus aureus.

**Q23. What is the mode of transmission of Hepatitis B?**

Ans: Bloodborne (also via sexual contact and perinatal).

**Q24. Which staining technique is used for Mycobacterium?**

Ans: Ziehl-Neelsen stain.

**Q25. What is an opportunistic infection?**

Ans: An infection caused by pathogens that take advantage of a weakened immune system.

**Q26. What is hypertension?**

Ans: A condition where blood pressure is consistently above 140/90 mmHg.

**Q27. Name the valve between the left atrium and left ventricle.**

Ans: Mitral valve.

**Q28. Define bradycardia.**

Ans: Heart rate less than 60 beats per minute.

**Q29. What is ECG used for?**

Ans: To assess the electrical activity of the heart.

**Q30. Name a drug used to treat angina.**

Ans: Nitroglycerin.

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**Q31. What is diabetes mellitus?**

Ans: A metabolic disorder characterized by high blood glucose levels.

**Q32. Which vitamin deficiency causes scurvy?**

Ans: Vitamin C.

**Q33. What is the normal body temperature?**

Ans: 98.6°F or 37°C.

**Q34. What does BMI stand for?**

Ans: Body Mass Index.

**Q35. Name a symptom of hypothyroidism.**

Ans: Fatigue or weight gain.

**Q36. Which organ produces insulin?**

Ans: Pancreas.

**Q37. Name a broad-spectrum antibiotic.**

Ans: Amoxicillin.

**Q38. What is the function of hemoglobin?**

Ans: To transport oxygen in the blood.

**Q39. What is jaundice?**

Ans: Yellowing of the skin and eyes due to high bilirubin.

**Q40. Name the universal donor blood group.**

Ans: O negative.

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**Q41. Which vitamin is synthesized in the skin by sunlight?**

Ans: Vitamin D.

**Q42. What is the first-line treatment for anaphylaxis?**

Ans: Epinephrine.

**Q43. Which cranial nerve is responsible for vision?**

Ans: Optic nerve (CN II).

**Q44. What is the incubation period of COVID-19?**

Ans: 2 to 14 days.

**Q45. Name the fluid that surrounds the brain and spinal cord.**

Ans: Cerebrospinal fluid (CSF).