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Human Physiology — 30 MCQs

Biology | AFNS Academic Test Preparation

1. The strongest wall of the heart is found in the:

- A) Right atrium
- B) Right ventricle
- C) Left ventricle
- D) Left atrium

✓Answer: C) Left ventricle

2. Normal fasting blood glucose level in humans is:

- A) 40–70 mg/dL
- B) 70–110 mg/dL
- C) 120–160 mg/dL
- D) 160–200 mg/dL

✓Answer: B) 70–110 mg/dL

3. Epinephrine (adrenaline) is secreted by the:

- A) Thyroid gland
- B) Pancreas
- C) Adrenal glands
- D) Pituitary gland

✓Answer: C) Adrenal glands

4. Bowman's capsule surrounds the:

- A) Nephron tubule
- B) Collecting duct
- C) Glomerulus
- D) Loop of Henle

✓Answer: C) Glomerulus

5. The main function of red blood cells is to:

- A) Fight infection
- B) Carry oxygen
- C) Produce antibodies
- D) Clot blood

✓Answer: B) Carry oxygen

6. Which blood cells are involved in clotting?

- A) Red blood cells
- B) White blood cells
- C) Platelets
- D) Plasma

✓Answer: C) Platelets

7. The functional unit of the kidney is the:

- A) Glomerulus
- B) Nephron
- C) Ureter
- D) Renal pelvis

✓Answer: B) Nephron

8. Which chamber of the heart receives oxygenated blood from the lungs?

- A) Right atrium
- B) Right ventricle
- C) Left atrium
- D) Left ventricle

✓Answer: C) Left atrium

9. The primary site of digestion of proteins is the:

- A) Mouth
- B) Stomach
- C) Small intestine
- D) Large intestine

✓Answer: B) Stomach

10. Insulin is produced by the:

- A) Liver
- B) Pancreas
- C) Adrenal gland
- D) Thyroid

✓Answer: B) Pancreas

11. Which organ produces bile?

- A) Gallbladder
- B) Pancreas

- C) Liver
- D) Stomach

✓Answer: C) Liver

12. The process of breathing in is called:

- A) Exhalation
- B) Respiration
- C) Inhalation
- D) Transpiration

✓Answer: C) Inhalation

13. Hemoglobin is found in:

- A) Plasma
- B) White blood cells
- C) Red blood cells
- D) Platelets

✓Answer: C) Red blood cells

14. The largest internal organ of the human body is the:

- A) Lungs
- B) Kidney
- C) Liver
- D) Heart

✓Answer: C) Liver

15. Which hormone regulates blood calcium levels?

- A) Insulin
- B) Thyroxine
- C) Parathyroid hormone
- D) Cortisol

✓Answer: C) Parathyroid hormone

16. Urine is produced in the:

- A) Urinary bladder
- B) Ureter
- C) Kidney
- D) Urethra

✓Answer: C) Kidney

17. The diaphragm is important for:

- A) Digestion
- B) Breathing
- C) Blood filtration
- D) Hormone secretion

✓Answer: B) Breathing

18. Autoimmune disease Rheumatoid arthritis occurs when:

- A) Bones dissolve
- B) The immune system attacks its own joints
- C) Bacteria infect joints
- D) Cartilage grows excessively

✓Answer: B) The immune system attacks its own joints

19. The number of chambers in the human heart is:

- A) 2
- B) 3
- C) 4
- D) 5

✓Answer: C) 4

20. Pepsin is an enzyme that digests:

- A) Fats
- B) Carbohydrates
- C) Proteins
- D) Nucleic acids

✓Answer: C) Proteins

21. Which bacterium causes peptic ulcers?

- A) Salmonella
- B) E. coli
- C) Helicobacter pylori
- D) Staphylococcus

✓Answer: C) Helicobacter pylori

22. The hormone thyroxine is produced by the:

- A) Pancreas
- B) Adrenal gland

- C) Pituitary gland
- D) Thyroid gland

✓Answer: D) Thyroid gland

23. Gas exchange in the lungs occurs in the:

- A) Bronchi
- B) Trachea
- C) Alveoli
- D) Bronchioles

✓Answer: C) Alveoli

24. Malpighian tubes serve as excretory organs in:

- A) Fish
- B) Insects
- C) Amphibians
- D) Mammals

✓Answer: B) Insects

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

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

✓Answer: D) Vitamin D

26. The primary function of the large intestine is:

- A) Protein digestion
- B) Fat absorption
- C) Water absorption
- D) Enzyme secretion

✓Answer: C) Water absorption

27. A person with blood type O can donate to:

- A) O only
- B) A and B only
- C) All blood types
- D) AB only

✓Answer: C) All blood types

28. The sinoatrial (SA) node is called the:

- A) Pacemaker of the heart
- B) Valve of the heart
- C) Blood filter
- D) Nerve of the heart

✓Answer: A) Pacemaker of the heart

29. Which organ filters blood and removes waste?

- A) Liver
- B) Lungs
- C) Kidney
- D) Spleen

✓Answer: C) Kidney

30. The lymphatic system is primarily responsible for:

- A) Oxygen transport
- B) Immunity and fluid balance
- C) Hormone production
- D) Digestion

✓Answer: B) Immunity and fluid balance