

ANATOMY & PHYSIOLOGY – OBJECTIVE QUESTIONS (MCQs)

1. What is the powerhouse of the cell?
A. Ribosome
B. Mitochondria
C. Nucleus
D. Endoplasmic reticulum
2. Homeostasis refers to:
A. Movement of cells
B. Maintenance of internal balance
C. Digestion of food
D. Cell reproduction
3. How many chambers does the human heart have?
A. Two
B. Three
C. Four
D. Five
4. Which bone is the longest in the human body?
A. Humerus
B. Tibia
C. Femur
D. Radius
5. The basic unit of the nervous system is:
A. Nephron
B. Neuron
C. Alveoli
D. Myofibril
6. Which organ is responsible for filtering blood?
A. Liver
B. Kidney
C. Pancreas
D. Spleen
7. The diaphragm is mainly involved in:
A. Digestion
B. Breathing
C. Blood circulation
D. Urination
8. What type of joint is the shoulder joint?
A. Hinge
B. Ball and socket
C. Pivot
D. Saddle
9. The largest part of the brain is:

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

10. Red blood cells are responsible for:

- A. Fighting infections
- B. Carrying oxygen
- C. Blood clotting
- D. Producing hormones

11. Which structure connects muscles to bones?

- A. Ligaments
- B. Tendons
- C. Cartilage
- D. Fascia

12. The smallest functional unit of the kidney is:

- A. Nephron
- B. Neuron
- C. Lobule
- D. Vacuole

13. Which hormone controls blood sugar levels?

- A. Insulin
- B. Thyroxine
- C. Estrogen
- D. Cortisol

14. The skin consists of how many main layers?

- A. One
- B. Two
- C. Three
- D. Four

15. Gas exchange in the lungs occurs in the:

- A. Bronchi
- B. Trachea
- C. Alveoli
- D. Pleura

16. Which of the following is a protein-digesting enzyme?

- A. Lipase
- B. Amylase
- C. Pepsin
- D. Maltase

17. The largest artery in the body is:

- A. Pulmonary artery
- B. Aorta
- C. Carotid artery
- D. Renal artery

18. What is the functional unit of the muscle?

- A. Sarcomere

- B. Nephron
- C. Axon
- D. Alveolus

19. The blood component responsible for clotting is:

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

20. Which system regulates hormones?

- A. Digestive system
- B. Endocrine system
- C. Respiratory system
- D. Skeletal system