

Chapter – 17 | Locomotion and Movement**QUIZ
PART-02**

1. Muscles originate from which germ layer?

- A. Ectoderm
- B. Mesoderm
- C. Endoderm
- D. Epidermis (B)

Explanation : Muscle tissue originates from the mesoderm.

2. Muscles form approximately how much of adult human body weight?

- A. 10–20%
- B. 20–30%
- C. 40–50%
- D. 70–80% (C)

Explanation : Muscles make up about 40–50% of adult body weight.

3. Skeletal muscles are also called:

- A. Involuntary muscles
- B. Smooth muscles
- C. Voluntary muscles
- D. Cardiac muscles (C)

Explanation : Skeletal muscles are under voluntary control.

4. Visceral muscles are found in:

- A. Heart wall
- B. Inner walls of hollow organs
- C. Skull bones
- D. Skeletal joints (B)

Explanation : Visceral muscles are present in organs like alimentary canal and reproductive tract.

5. Cardiac muscles are found in the:

- A. Stomach
- B. Heart
- C. Femur
- D. Skin (B)

Explanation : Cardiac muscles are muscles of the heart.

6. The plasma membrane of a muscle fibre is called:

- A. Sarcoplasm
- B. Sarcolemma
- C. Sarcomere
- D. Fascia (B)

Explanation : Sarcolemma is the plasma membrane of a muscle fibre.

7. Calcium ions are stored in muscle fibres mainly in:

- A. Sarcolemma
- B. Sarcoplasmic reticulum
- C. Myosin head
- D. Z-line (B)

Explanation : Sarcoplasmic reticulum stores calcium ions.

8. The light band of a myofibril is called:

- A. A-band
- B. I-band
- C. H-zone
- D. M-line (B)

Explanation : The light band is the I-band or isotropic band.

9. The dark band of a myofibril contains mainly:

- A. Actin
- B. Myosin
- C. Troponin only
- D. Chondroitin (B)

Explanation : The A-band or dark band contains myosin.

10. The functional unit of contraction in striated muscle is:

- A. Sarcolemma
- B. Sarcoplasm
- C. Sarcomere
- D. Fascia (C)

Explanation : The sarcomere is the functional unit of contraction.