Chapter – 17 | Excretory Products and their Elimination

QUIZ-01

1. **Which statement is correct about movement and locomotion?**
   A. All movements are locomotion
   B. All locomotions are movements
   C. Locomotion never changes place
   D. Movement occurs only in animals (B)
   Explanation : Locomotion is a type of movement that causes change in place, so all locomotions are movements but all movements are not locomotions.
2. **Amoeboid movement in human body is shown by:**
   A. RBCs and platelets
   B. Macrophages and leucocytes
   C. Neurons and osteocytes
   D. Muscle fibres only (B)
   Explanation : Macrophages and leucocytes show amoeboid movement with the help of pseudopodia.
3. **Skeletal muscles are also called voluntary muscles because they are:**
   A. Under conscious control
   B. Present only in heart
   C. Non-striated
   D. Found in visceral organs (A)
   Explanation : Skeletal muscles are controlled by the nervous system according to our will, so they are voluntary muscles.
4. **The storehouse of calcium ions in muscle fibre is:**
   A. Sarcolemma
   B. Sarcoplasmic reticulum
   C. Myoglobin
   D. Z-line (B)
   Explanation : Sarcoplasmic reticulum stores calcium ions, which are essential for muscle contraction.
5. **The functional unit of muscle contraction is:**
   A. Fascicle B. Sarcomere
   C. Sarcolemma D. Tendon (B)
   Explanation : The portion between two successive Z-lines is called a sarcomere and works as the functional unit of contraction.
6. **The light I-band of a myofibril mainly contains:**
   A. Myosin
   B. Actin
   C. Collagen
   D. Calcium (B)
   Explanation : I-band contains thin actin filaments, while A-band contains thick myosin filaments.
7. **Muscle contraction is best explained by:**
   A. Lock and key theory
   B. Sliding filament theory
   C. Cell theory
   D. Fluid mosaic model (B)
   Explanation : Sliding filament theory states that thin actin filaments slide over thick myosin filaments during contraction.
8. **During muscle contraction, which band retains its length?**
   A. I-band
   B. A-band
   C. H-zone
   D. Z-line (B)
   Explanation : During contraction, I-band and H-zone reduce, but the A-band remains the same length.
9. **The total number of bones in the adult human skeleton is:**
   A. 80
   B. 126
   C. 206
   D. 300 (C)
   Explanation : The adult human skeletal system consists of 206 bones.
10. **Gout is caused by accumulation of:**
    A. Calcium carbonate crystals
    B. Uric acid crystals
    C. Glucose crystals
    D. Sodium chloride crystals (B)
    Explanation : Gout is inflammation of joints due to accumulation of uric acid crystals.