

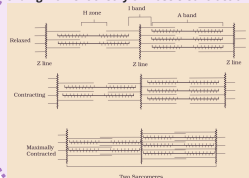
**Properties of muscle fibers**

- Excitability
- Contractility
- Extensibility
- Elasticity

**Types of muscles**

- Skeletal
- Visceral
- Cardiac

**Sliding filament theory of Muscle Contraction**



**Types of Movement**

- Amoeboid
- Ciliary
- Muscular

**Disorders of muscular and skeletal System**

- Myasthenia gravis
- Muscular dystrophy
- Tetany
- Arthritis
- Osteoporosis
- Gout

Cartilaginous  
 (Slightly movable)

Fibrous  
 (Immovable)

**Joints**

**Synovial (movable)**

- Ball and socket joint
- Hinge joint
- Pivot joint
- Gliding joint
- Saddle joint

**Locomotion and Movement**

**Skeletal System**

**Axial (80 bones)**

**Appendicular (126)**

**Skull (40 bones)**

**Sternum (1)**

**Vertebral column**

**Ribs (12 pairs)**

**Limb bones**

**Girdles**

**Bones of hindlimbs  
 (30 x 2 = 60)**

**Bones of forelimbs  
 (30 x 2 = 60)**

**Pectoral girdle  
 (2 x 2 = 4)**

**Pelvic girdle (2)**

- Cervical (5)
- Thoracic (12)
- Lumbar (5)
- Sacral (1 fused)
- Coccygeal (1 fused)