

SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES

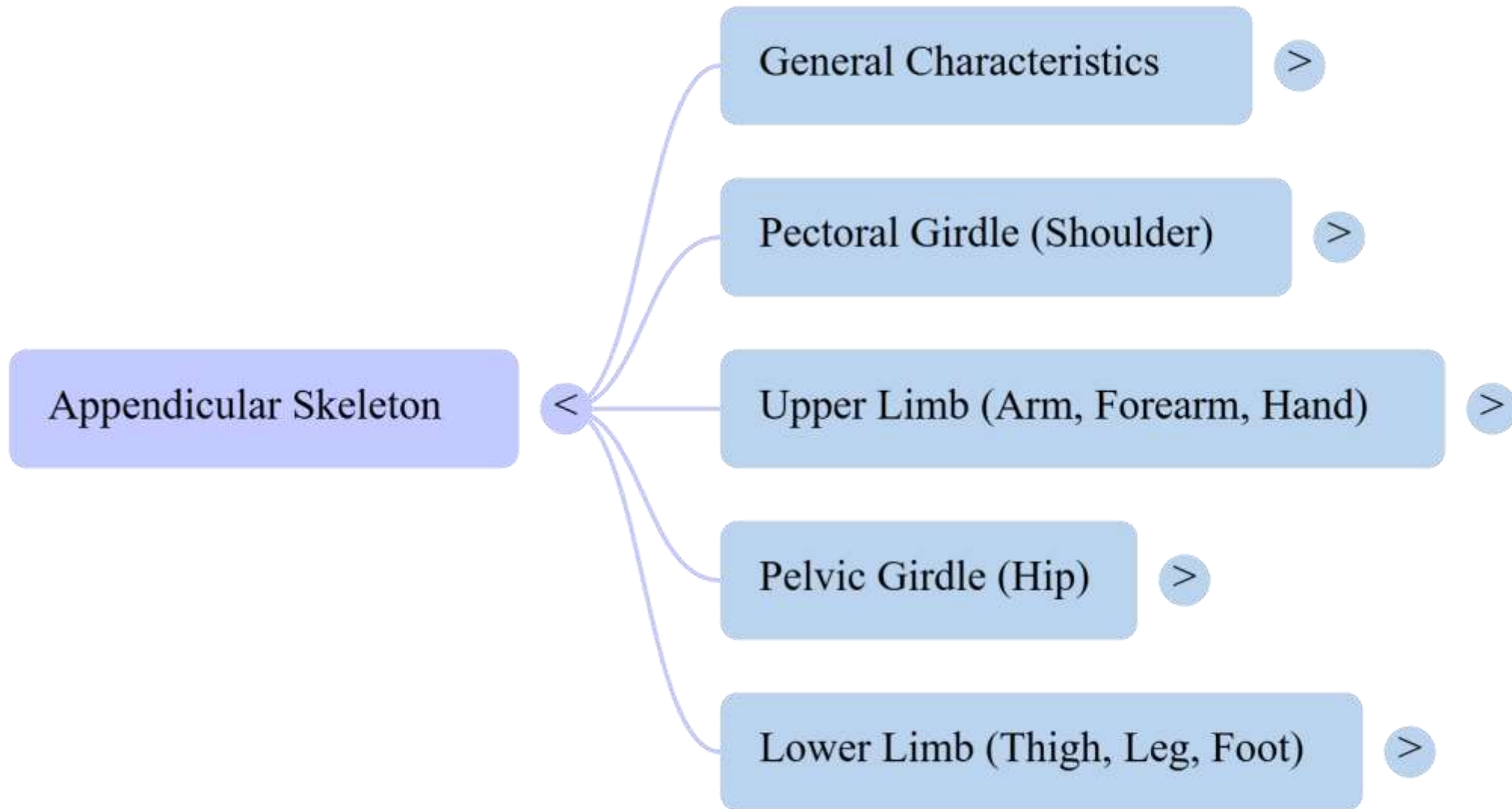
Affiliated To The Tamil Nadu Dr. MGR Medical University, Chennai
Approved by Pharmacy Council of India, New Delhi. Coimbatore -641035

COURSE NAME : HUMAN ANATOMY & PHYSIOLOGY (BP301 T)

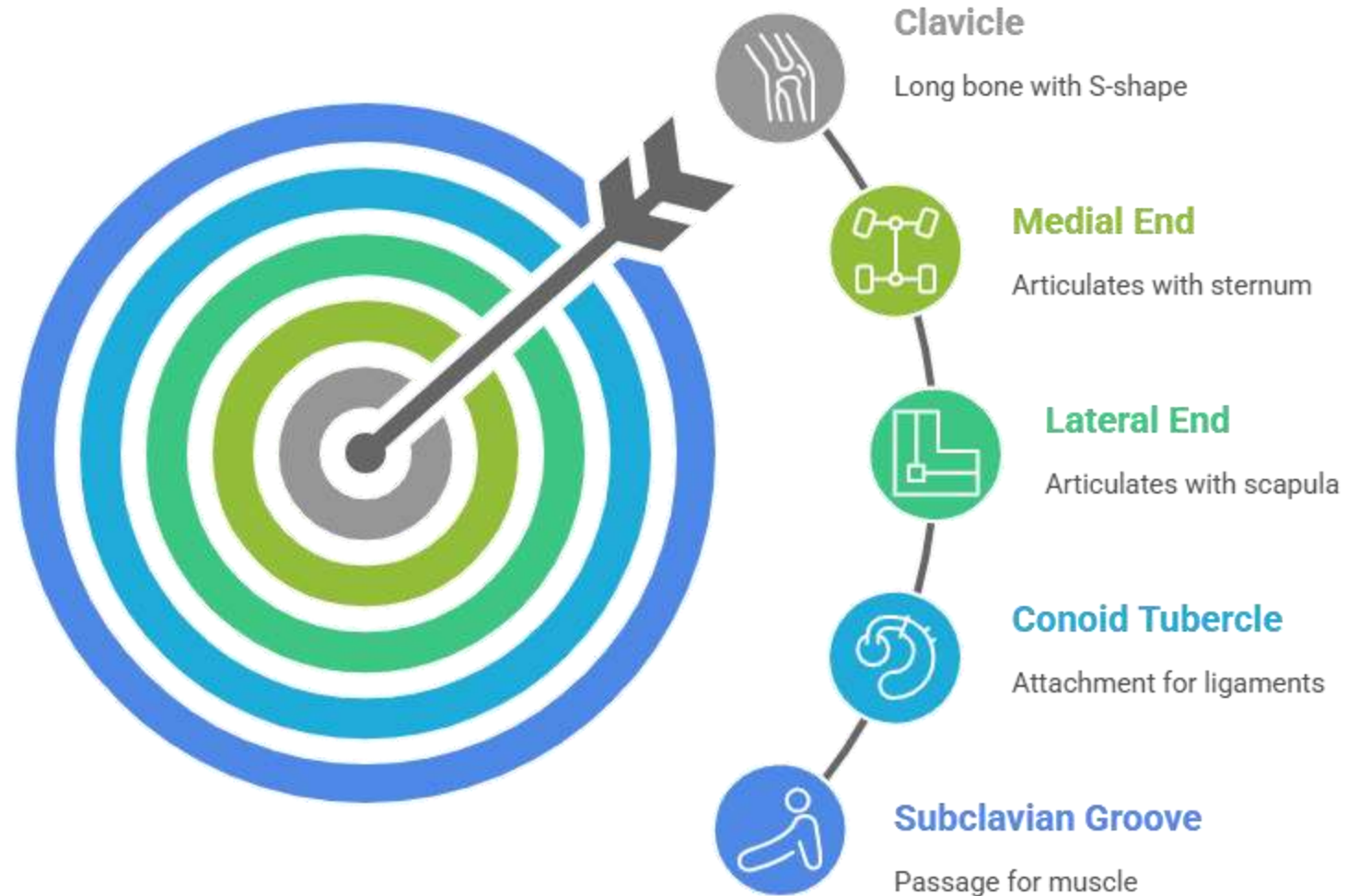
YEAR : I SEM/I YEAR

TOPIC : APPENDICULAR SYSTEM

MIND MAP



Clavicle Anatomy and Function



Pectoral Girdle

What is the pectoral girdle?

It connects the upper limbs to the axial skeleton.

What bones does it consist of?

The clavicle and the scapula on each side of the body.



Made with  Napkin

What are the key features of the scapula?

Triangular Shape

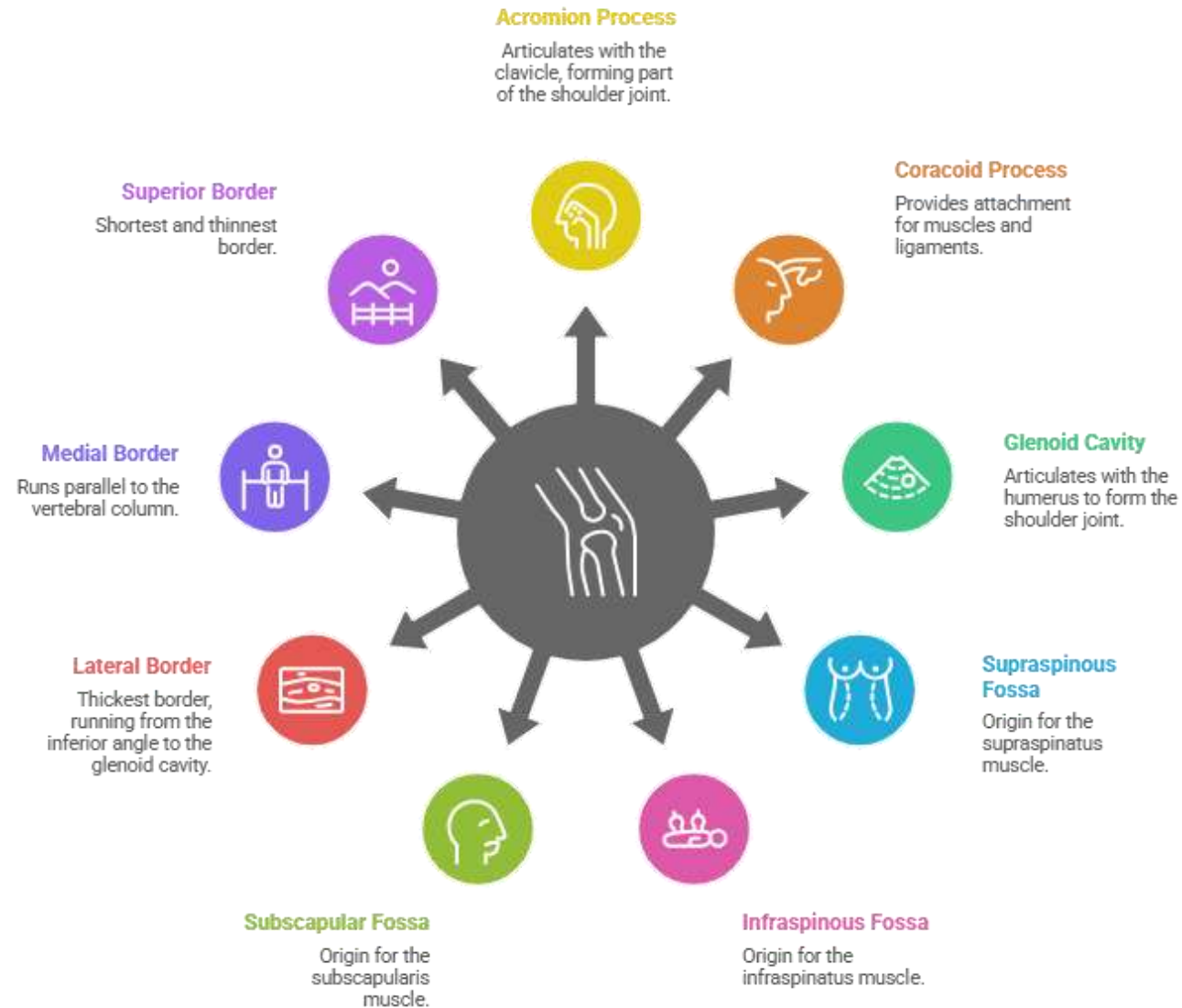
A flat, triangular bone located on the posterior aspect of the thorax.

Spine of the Scapula

A prominent ridge on the posterior surface that divides the scapula into the supraspinous fossa and infraspinous fossa.



Scapula Features and Functions



Upper Limb Bone Structure

Radius and Ulna

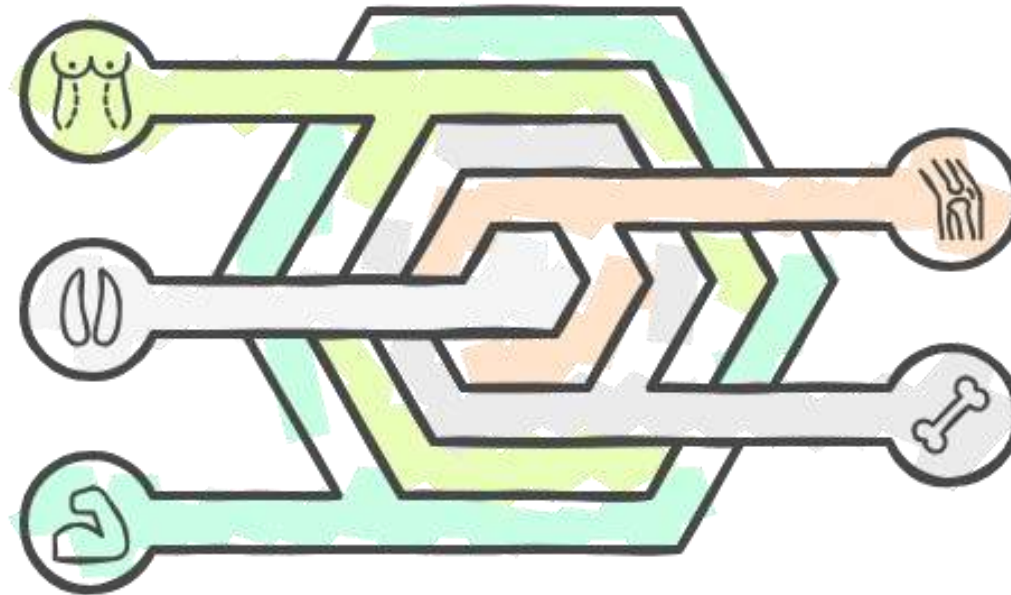
Forearm bones

Phalanges

Finger and toe bones

Humerus

Arm bone



Metacarpals

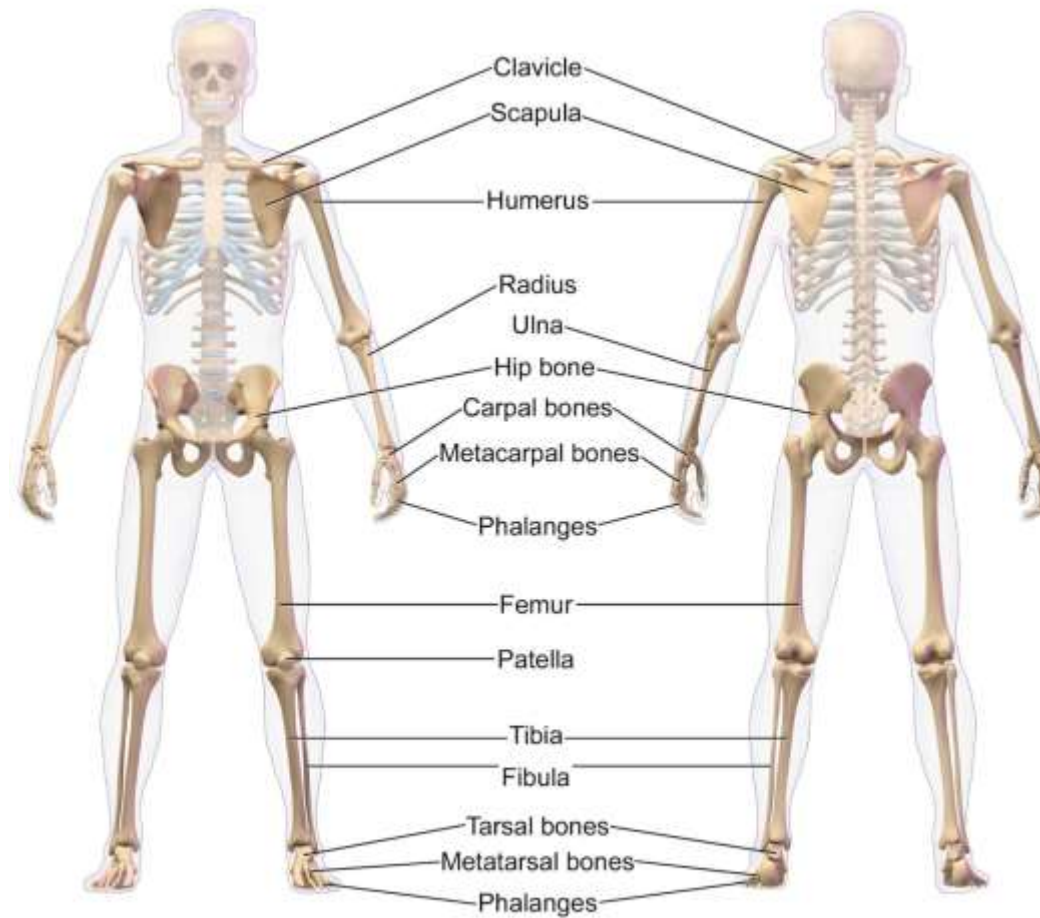
Hand bones connecting
carpals to phalanges

Carpals

Wrist bones

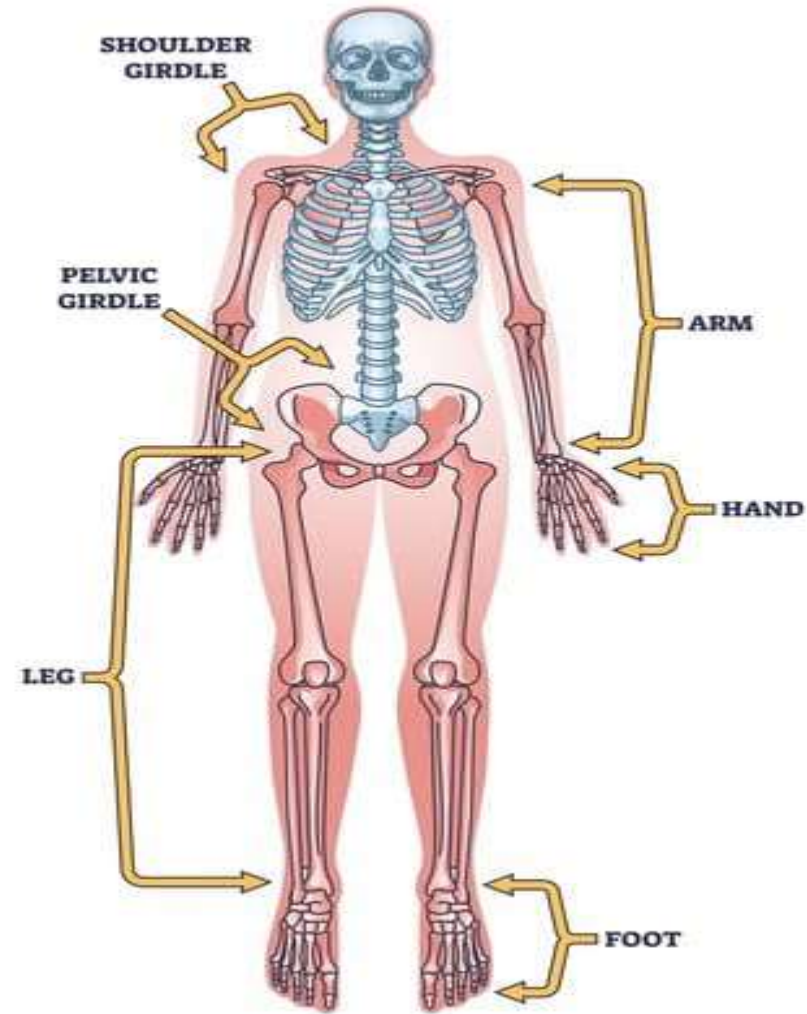
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DIVISION APPENDICULAR SKELETON

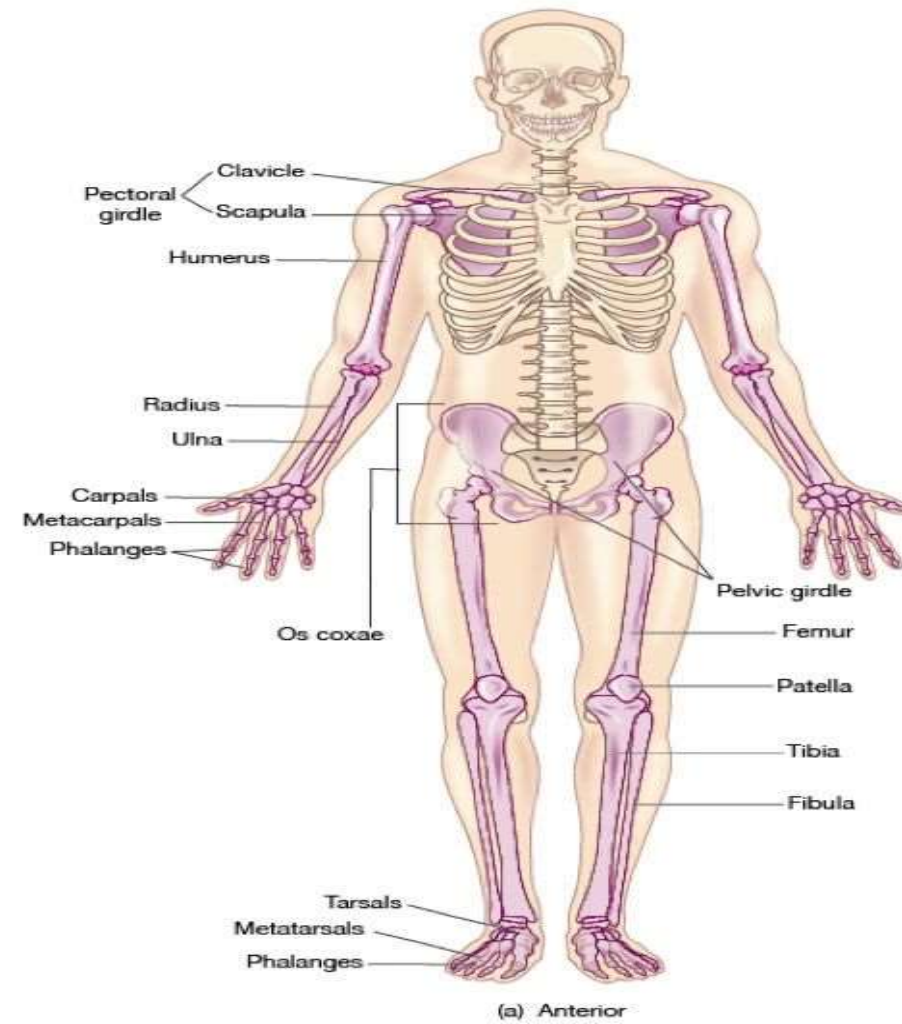


The Appendicular Skeleton

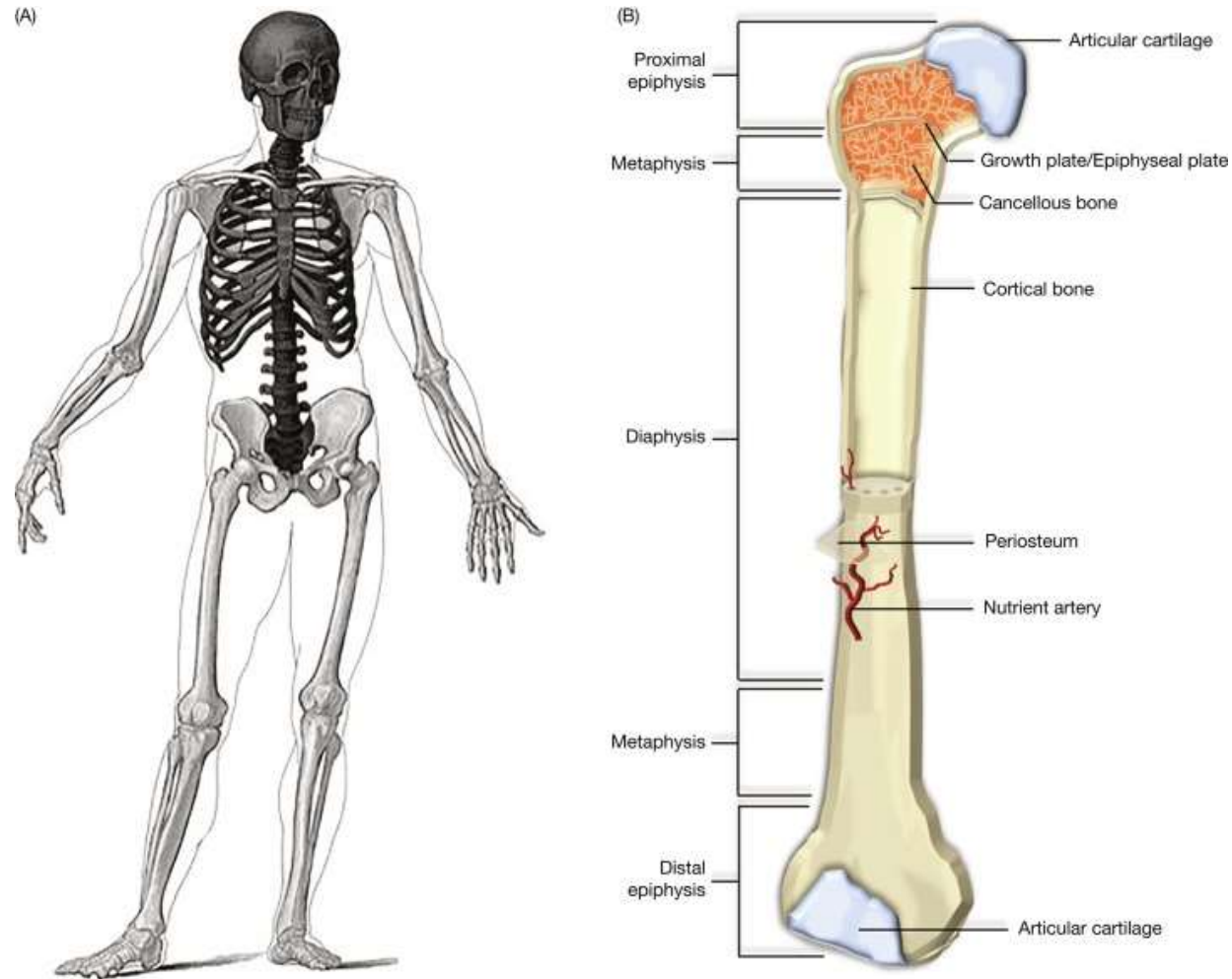
APPENDICULAR SKELETON



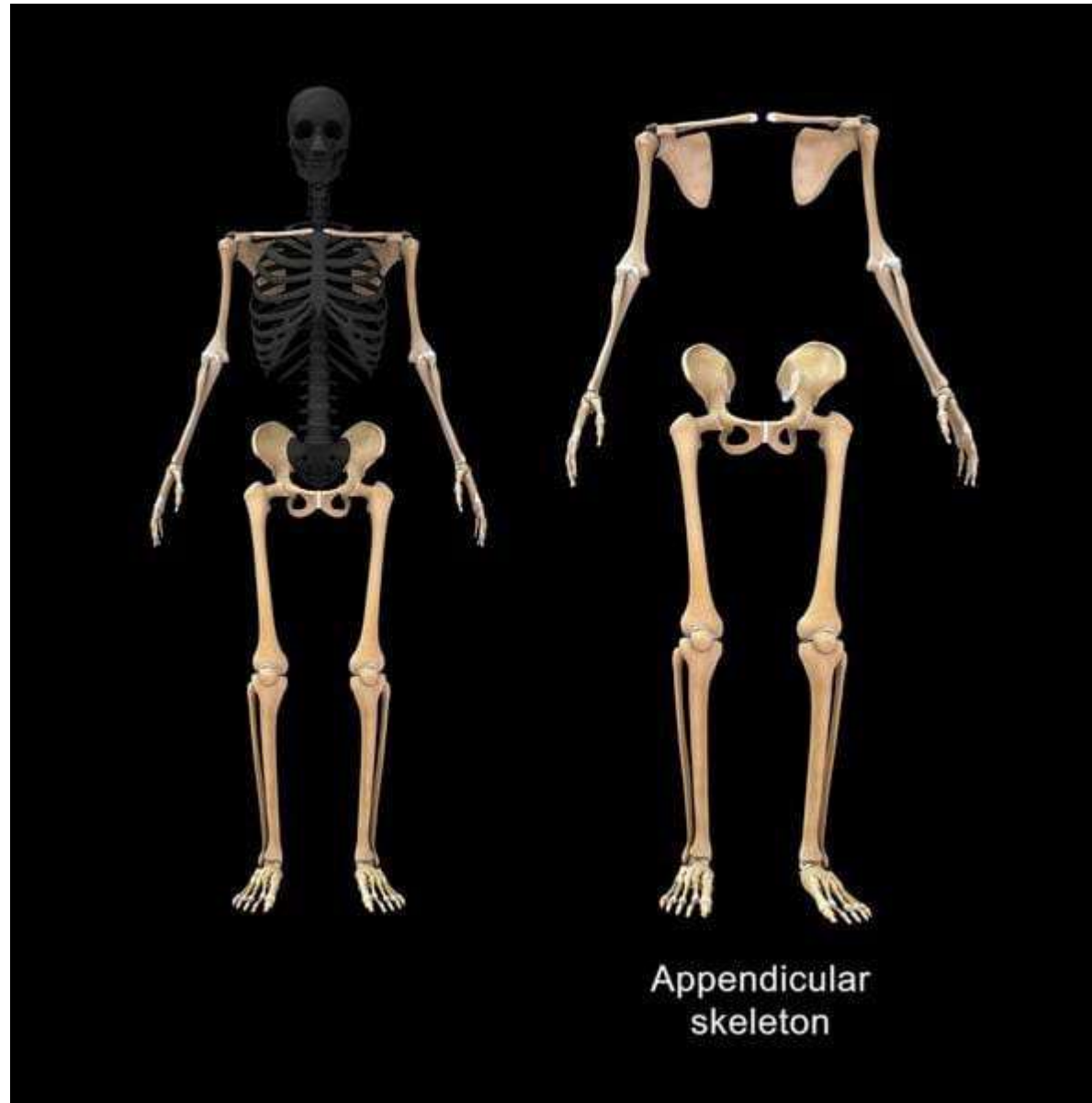
ANTERIOR VIEW



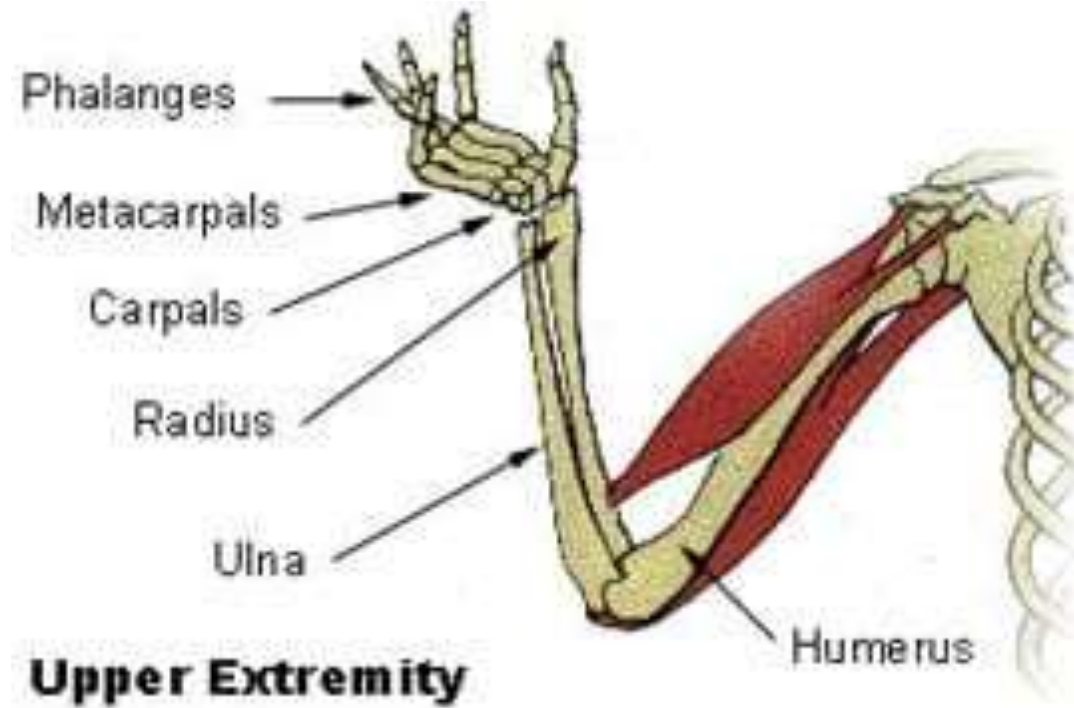
FEMUR



APPENDICULAR SKELETON



UPPER EXTREMITY



PELVIC GRIDLE

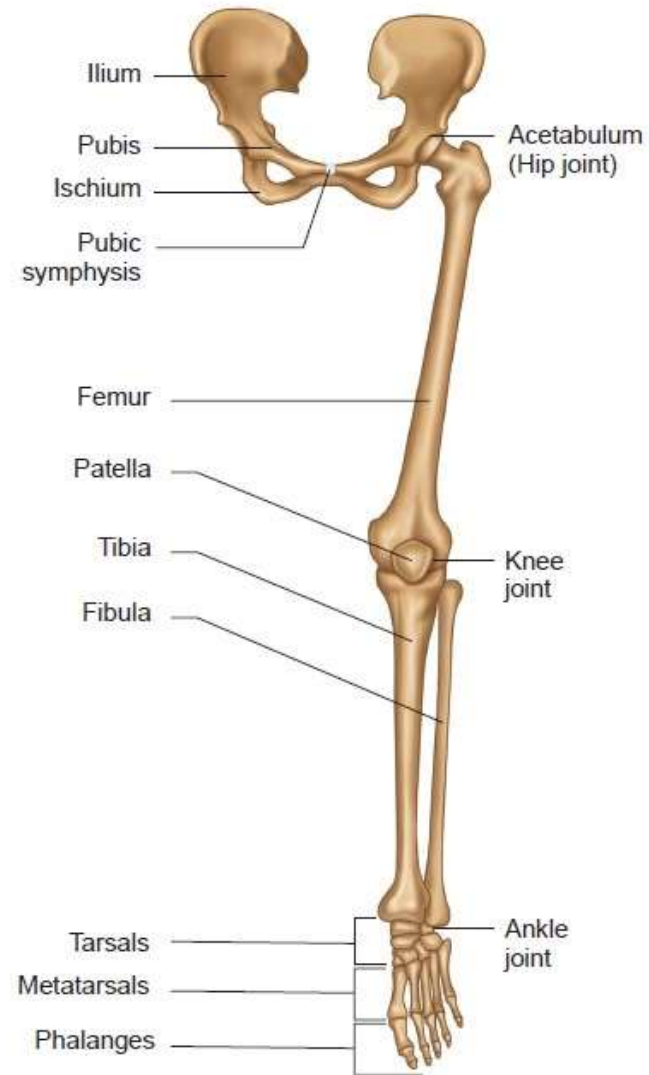
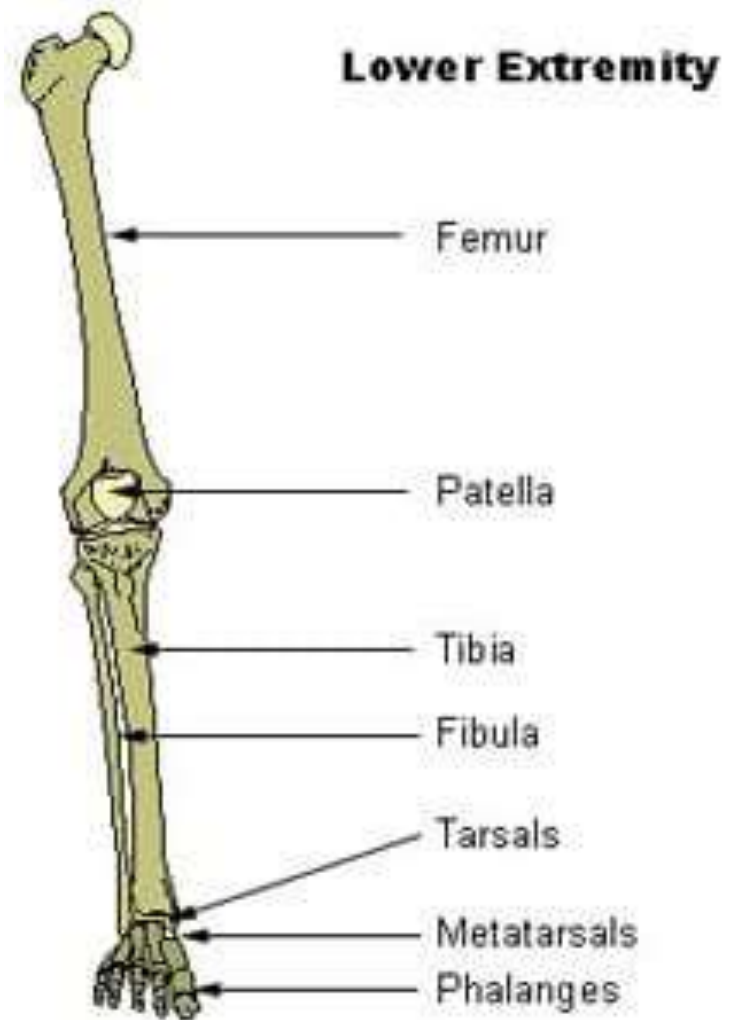


Figure 9.11 Pelvic girdle with lower limb

LOWER EXTREMITY

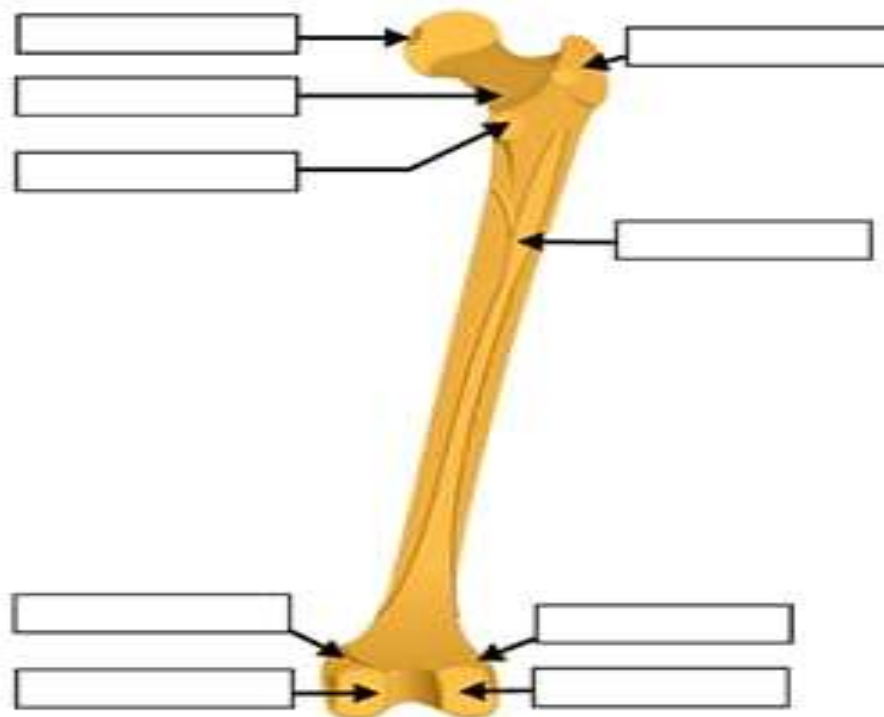




CLASS ASSESSMENTS

3. Mark the parts in diagram?

Structures of the Femur

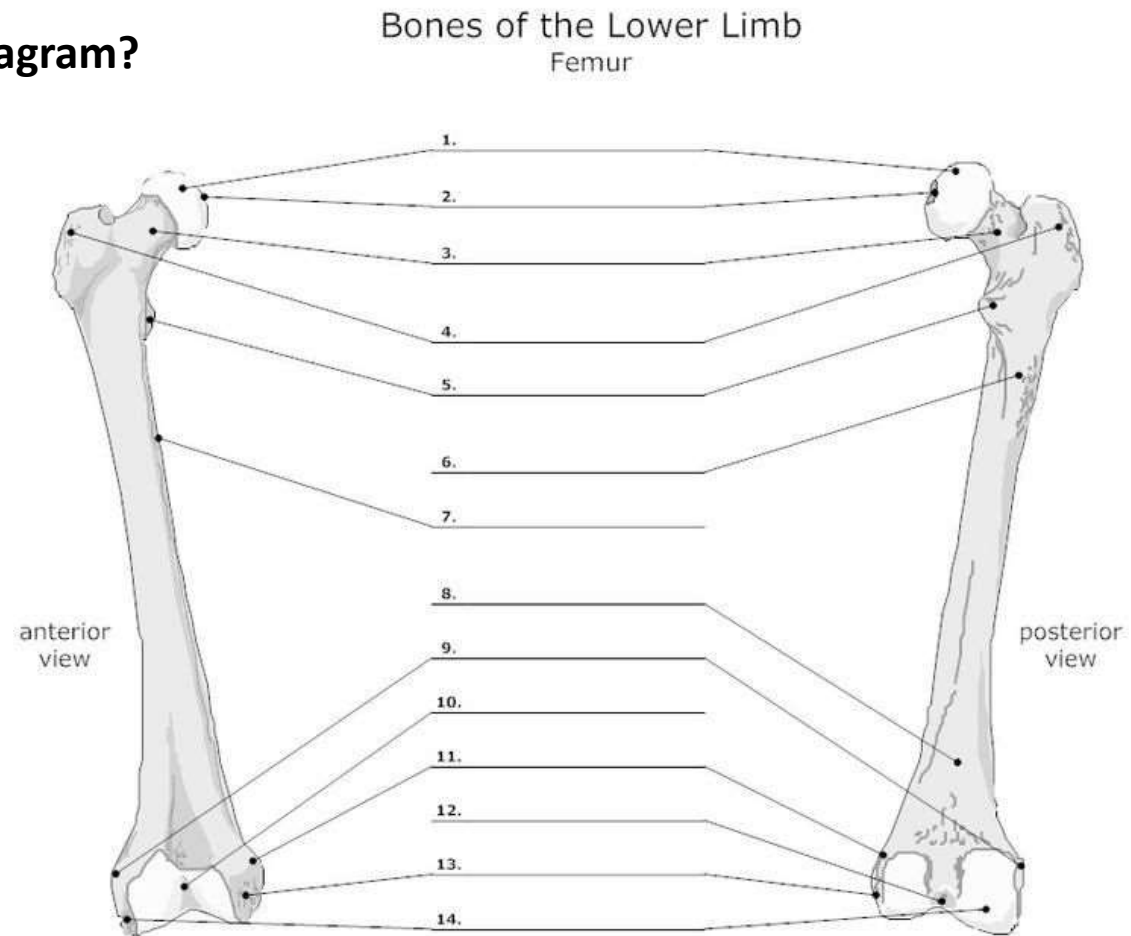


Neck	Linea Aspera	Head (fovea capitis)
Lateral Condyle	Medial Condyle	Greater Trochanter
Lateral Epicondyle	Medial Epicondyle	Lesser Trochanter



CLASS ASSESSMENTS

3. Mark the parts in diagram?

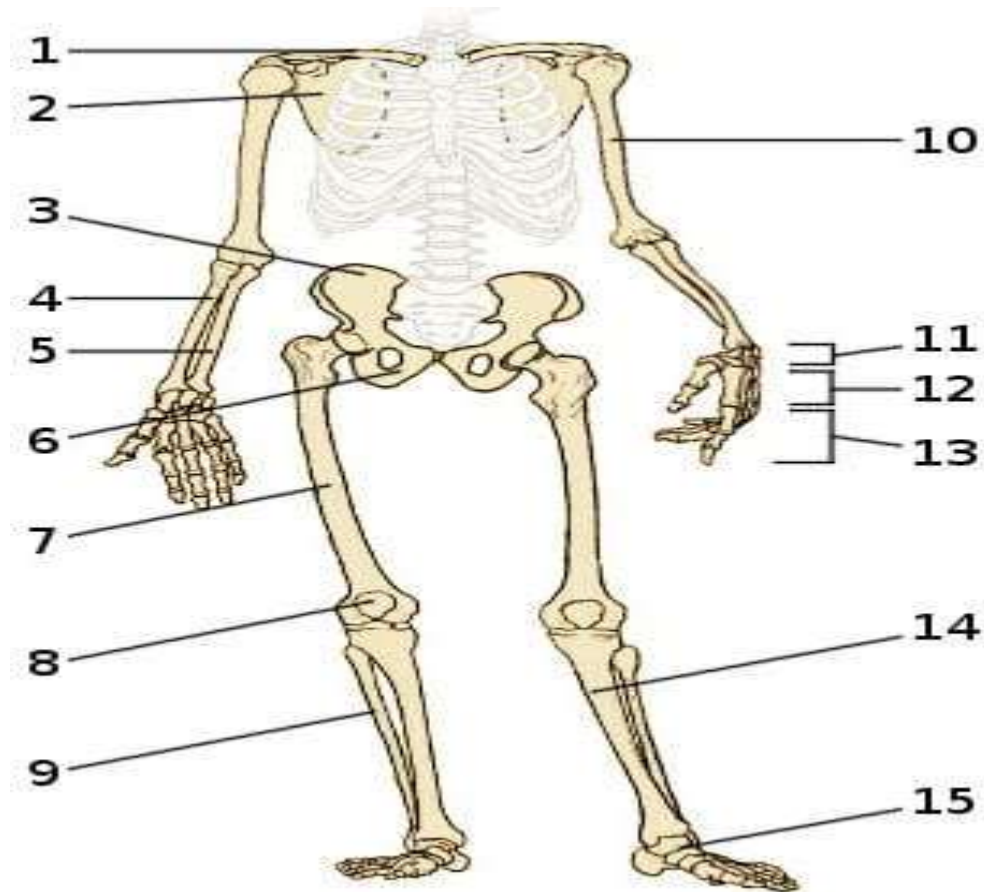


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CLASS ASSESSMENTS

3. Mark the parts in diagram?



SUMMARY

- **Appendicular Skeleton (126 bones)**
- **Upper limbs** (60 bones): shoulder girdle (2 clavicles + 2 scapulae), arms (2 humerus), forearms (2 radius + 2 ulna), hands (16 carpals, 10 metacarpals, 28 phalanges).
- **Lower limbs** (60 bones): pelvic girdle (2 hip bones), thighs (2 femurs), legs (2 tibiae + 2 fibulae), kneecaps (2 patellae), feet (14 tarsals, 10 metatarsals, 28 phalanges).
- Total per side: 30 bones in each upper limb + 30 bones in each lower limb + 6 bones in girdles = 126 bones.

REFERENCE

- ✓ Essentials of Medical Physiology, K. Sembulingam & P. Sembulingam (Jaypee Brothers Medical Publishers)
- ✓ A Textbook of Human Anatomy and Physiology-I, SIA Publishers
- ✓ Human Anatomy & Physiology Gerard J. Tortora & Bryan H. Derrickson (Wiley)
- ✓ Ross and Wilson anatomy and physiology in health and illness, Anne Waugh & Allison Grant.

