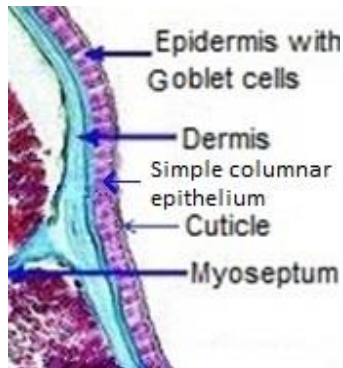
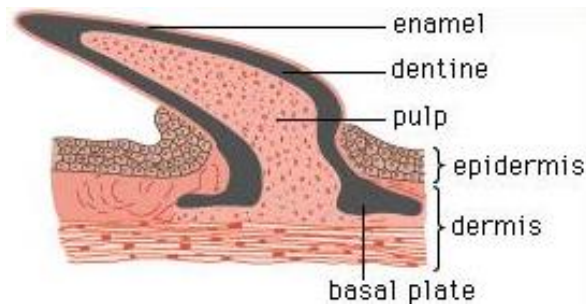


# Comparative Anatomy/Practical

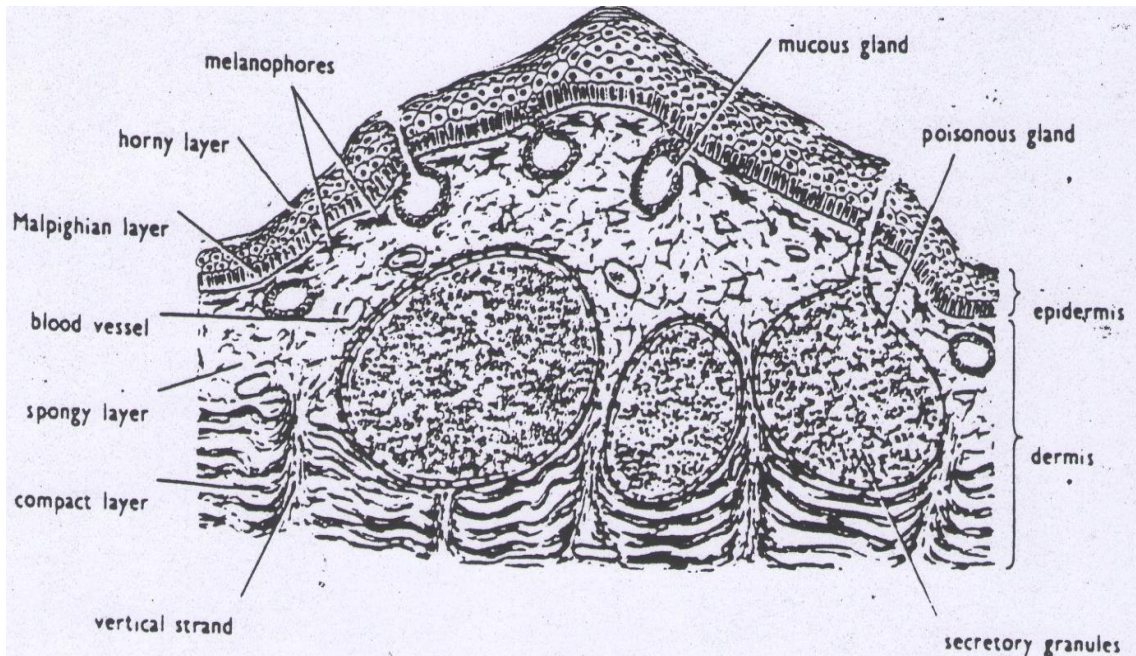
## Chapter one: Integumentary system



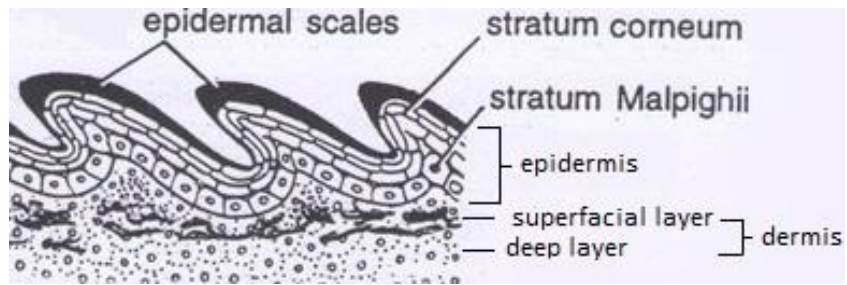
**FIGURE 1. Vertical section through Amphioxus skin.**



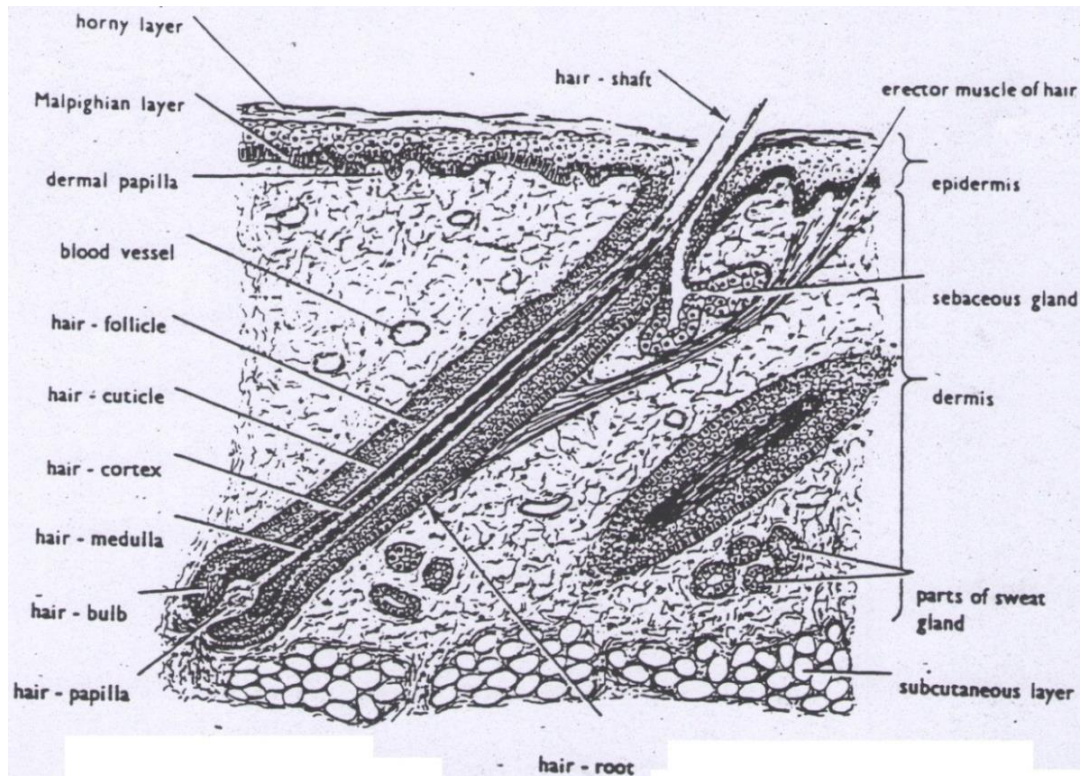
**FIGURE 2: Vertical section through shark (cartilaginous fish) skin.**



**FIGURE 3: V.S. of frog skin.**



**FIGURE 4: V.S. of lizard skin.**

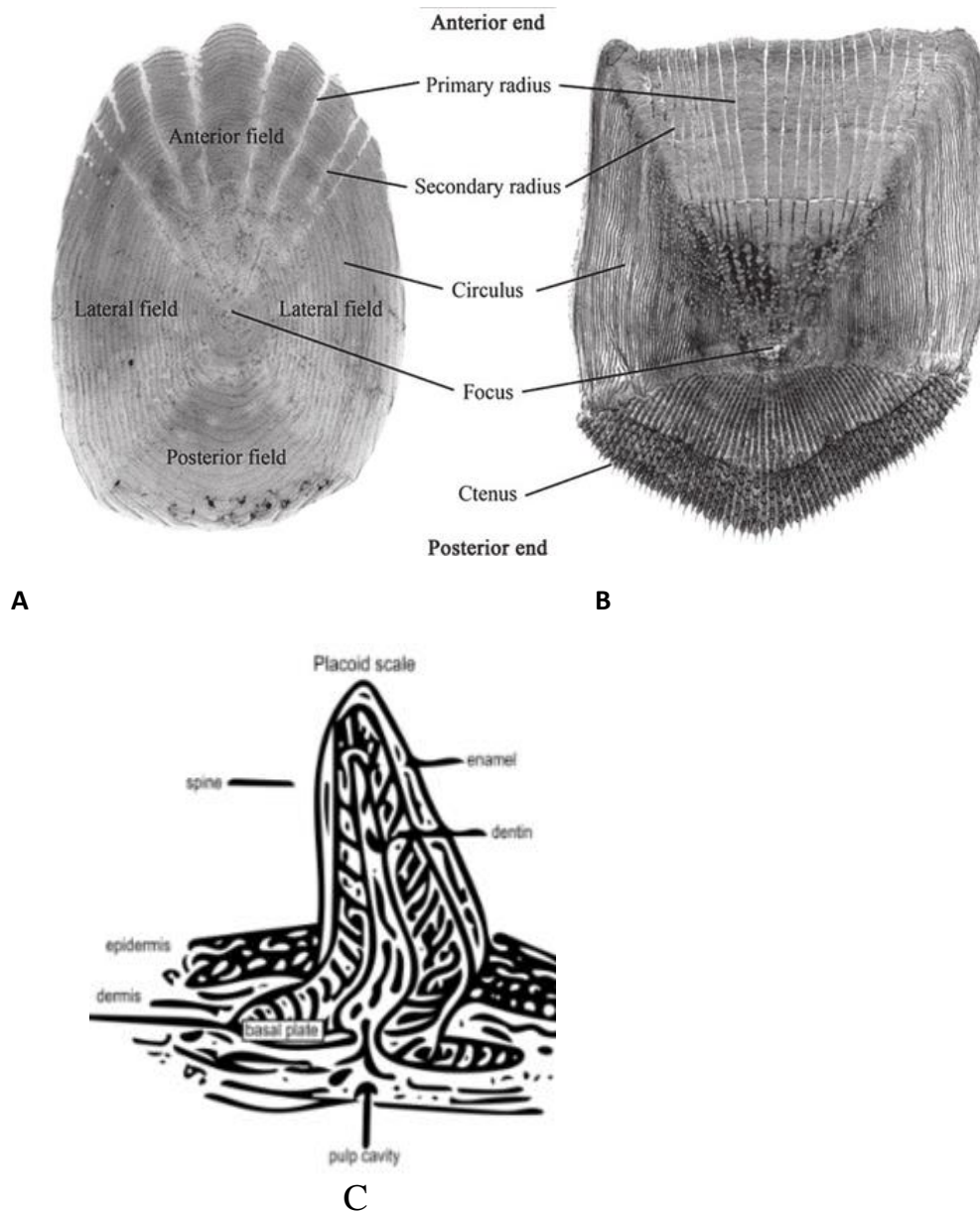


**FIGURE 5. V.S. through the rabbit skin.**

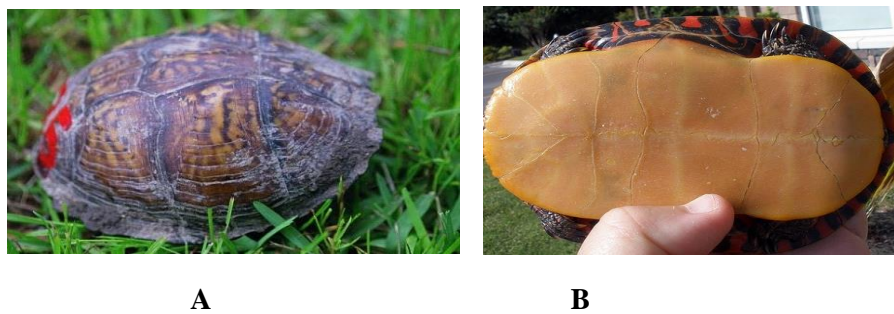


**FIGURE 6. Oil or uropygial gland at the base of tail rudiment of birds to preen the feathers to be impervious with water.**

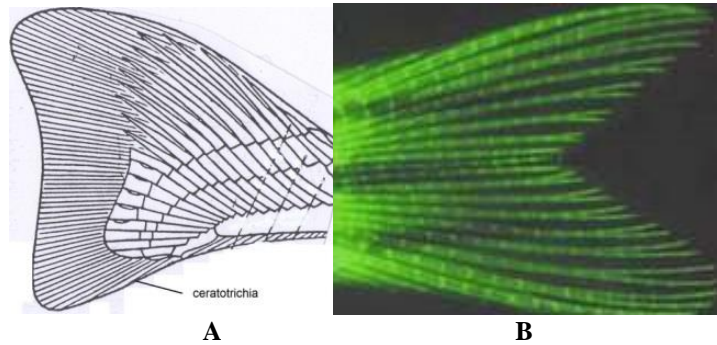




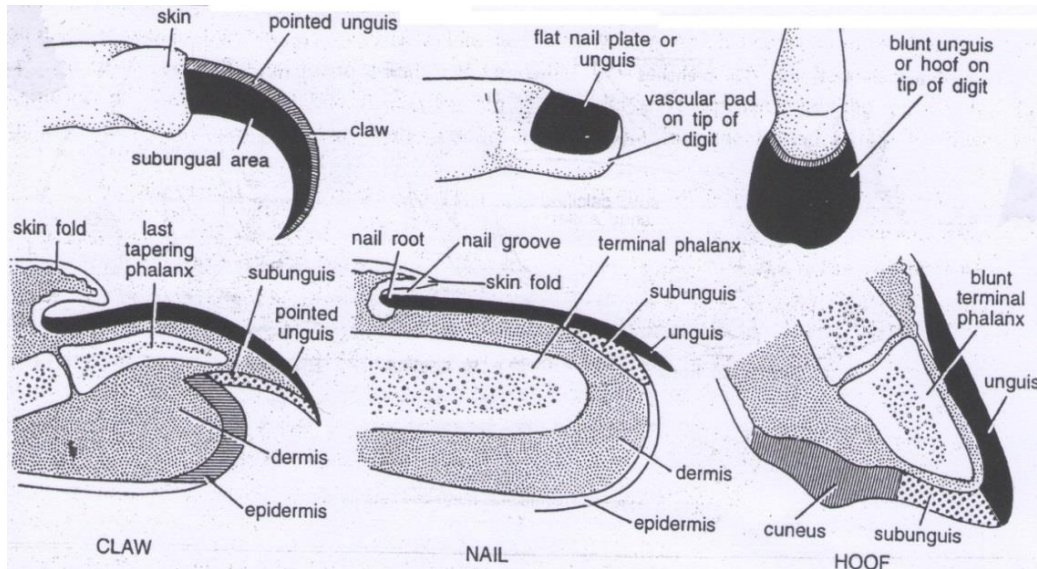
**FIGURE 7. Varied types of fish dermal scales: A. cycloid, B. ctenoid, C. placoid.**



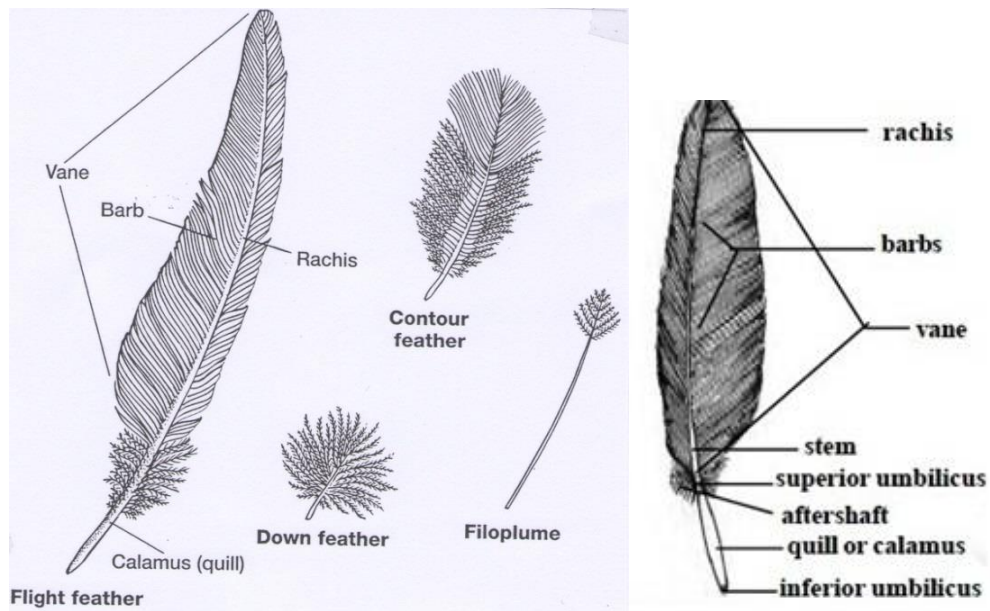
**FIGURE 8. A- Carapace: the dorsal half of the chelonian shell. B-Plastron: the ventral half of the shell.**



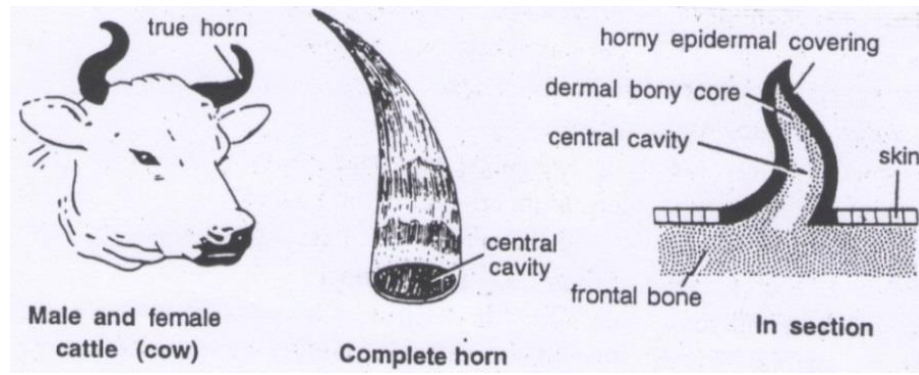
**FIGURE 9. Fin rays A- Ceratotrichia, thread like; B- Lepidotrichia, segmented and branched.**



**FIGURE 10. Three homologous corneal structures: claw; nail and hoof. They have same developmental origin and built up on same structure.**



**FIGURE 11. Three types of bird feathers.**



**FIGURE 12. External feature and structure of true hollow horn.**



## Chapter two: Endoskeletal system

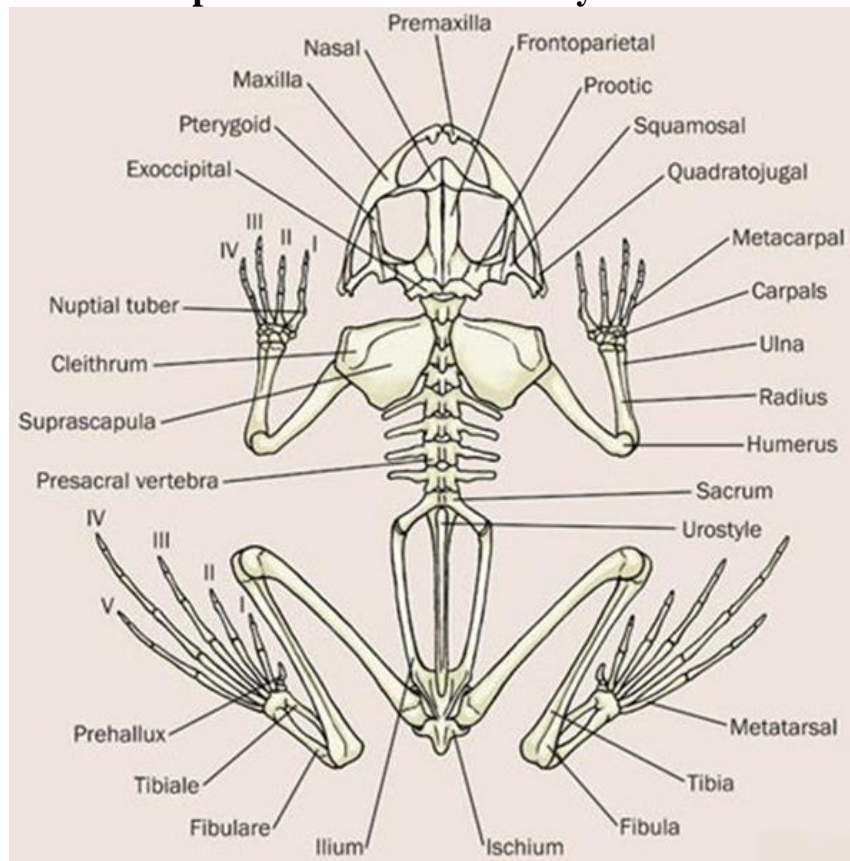


FIGURE 1: Frog endoskeleton.

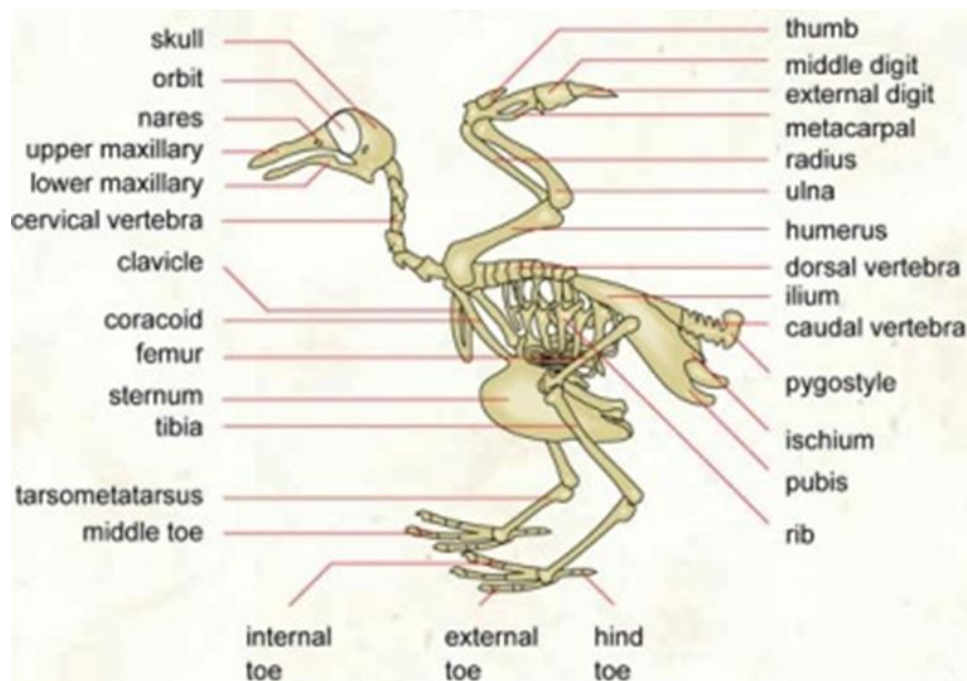
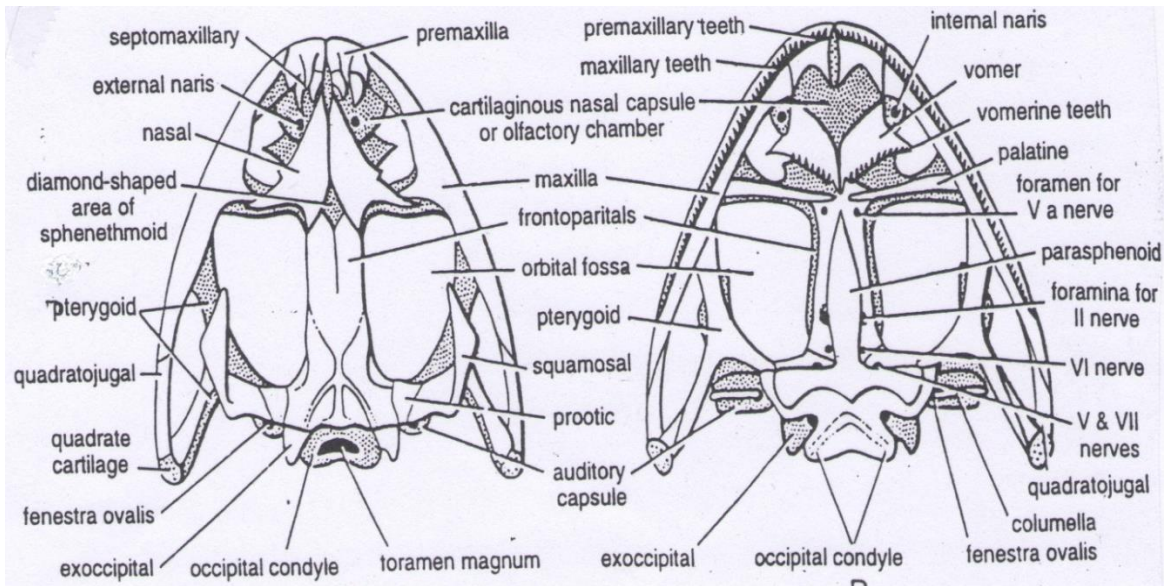
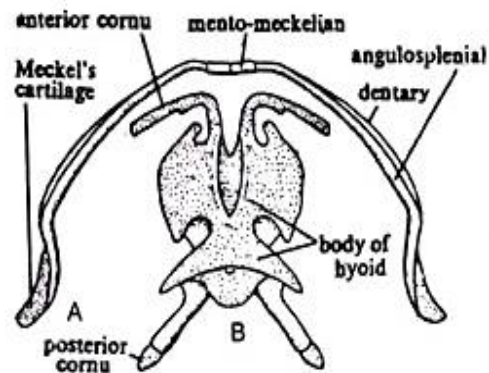


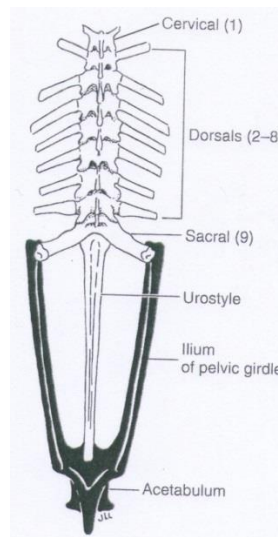
FIGURE 2: Endoskeleton of birds.



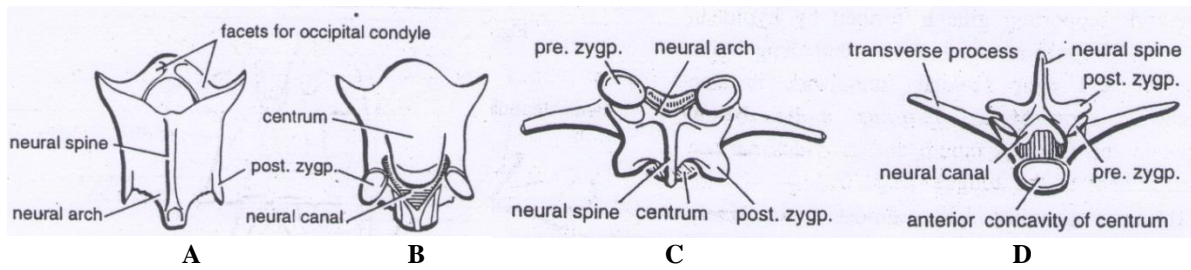
**FIGURE 3. Frog skull, A. Dorsal view, B. Ventral view.**



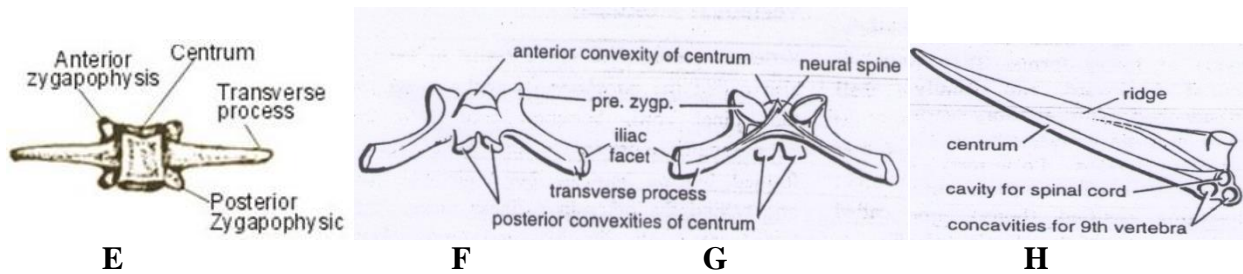
**FIGURE 4. Frog: A- Lower jaw, B- Hyoid apparatus.**



**FIGURE 4. Vertebral column and pelvic girdle (black part) of frog.**

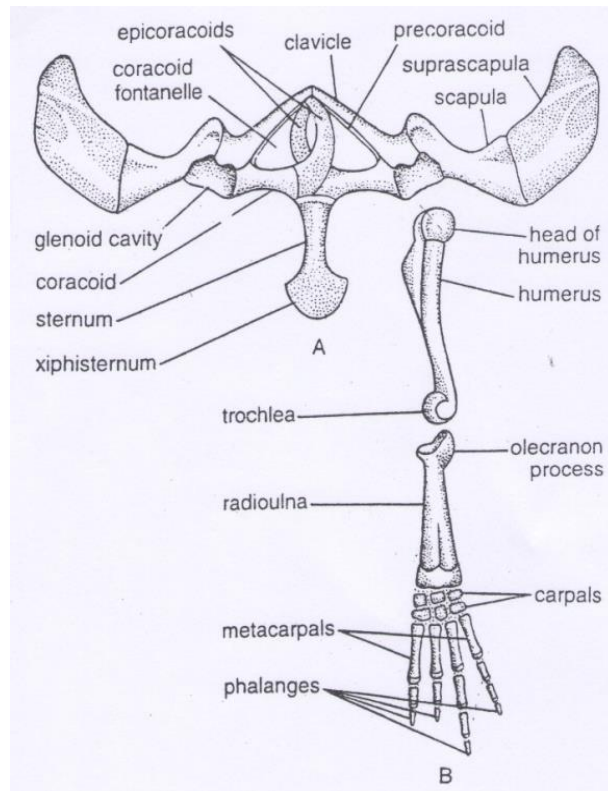


**Atlas: A- dorsal view, B- ventral view. Typical vertebra: C- dorsal view, D- ventral view.**



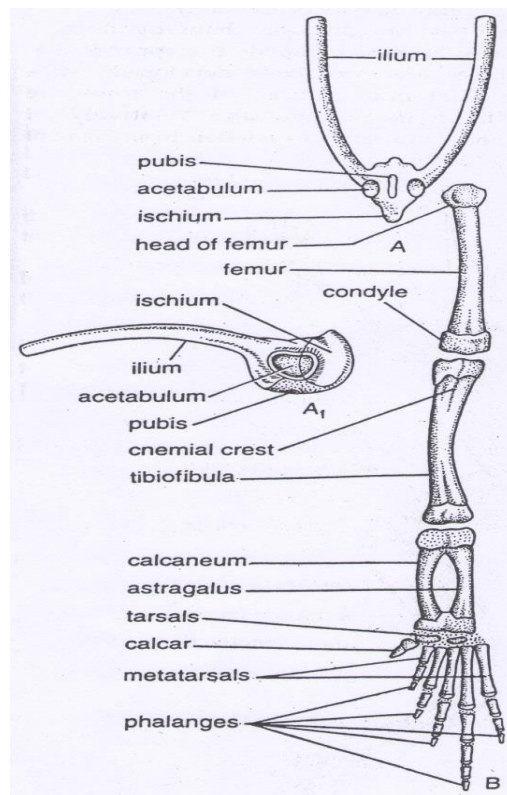
**E- 8<sup>th</sup> Vertebra (dorsal view). 9<sup>th</sup> Vertebra: F- Ventral, G- dorsal. H- Urostyle, lateral view.**

**FIGURE 5. Frog's vertebrae.**

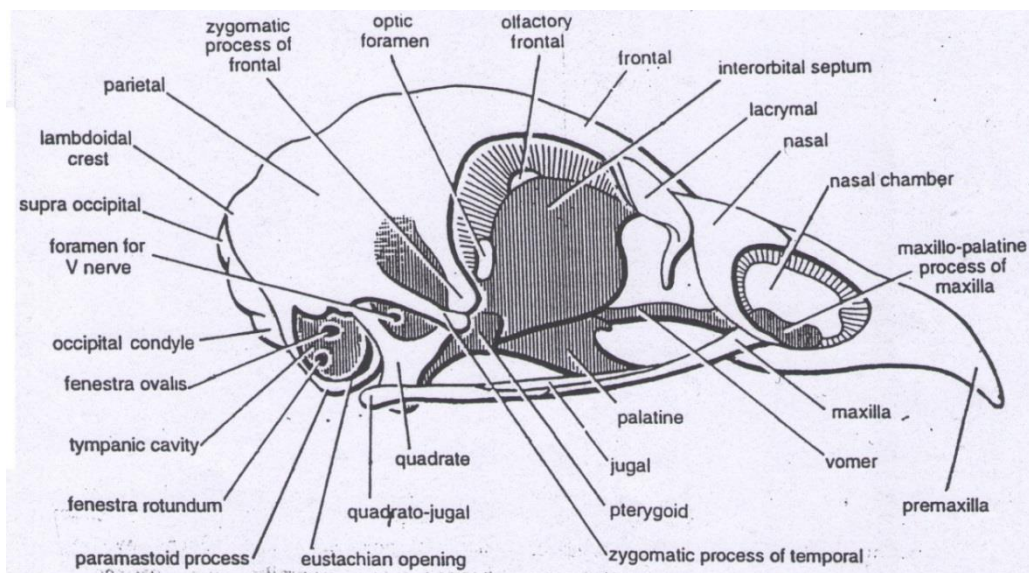


**FIGURE 6. A- Frog pectoral girdle, B- Bones of frog fore limb.**

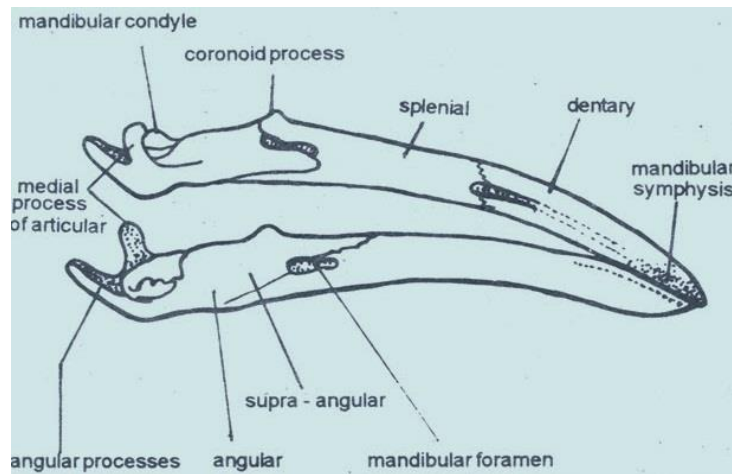




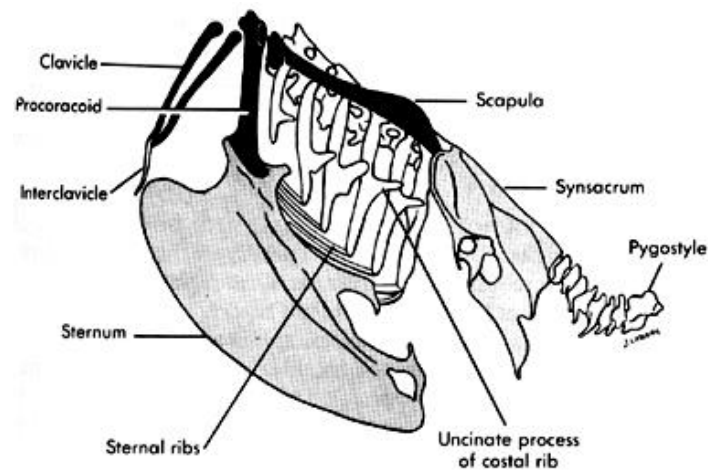
**FIGURE 7: Pelvic girdle and hind limb of the frog, A-Pelvic girdle, dorsal view. A1- Pelvic girdle side view, B- Bones of the hind limb.**



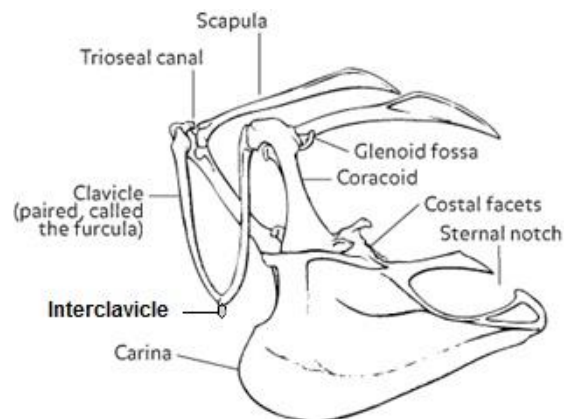
**FIGURE 8. Bird cranium and upper jaw.**



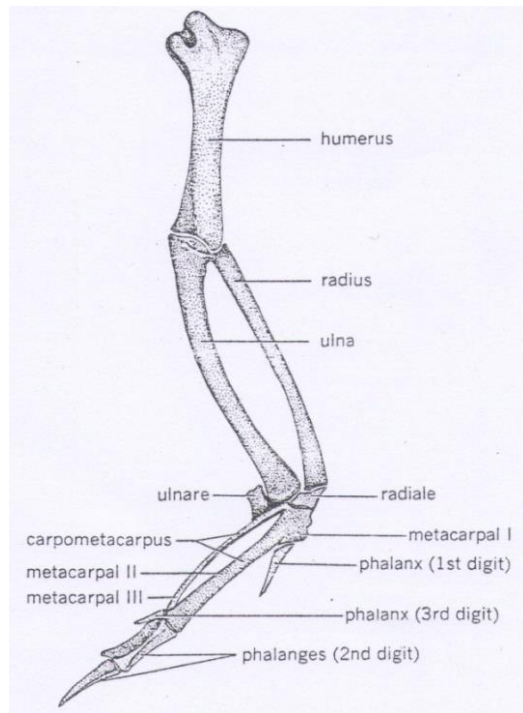
**FIGURE 9. Bird's lower jaw or mandible.**



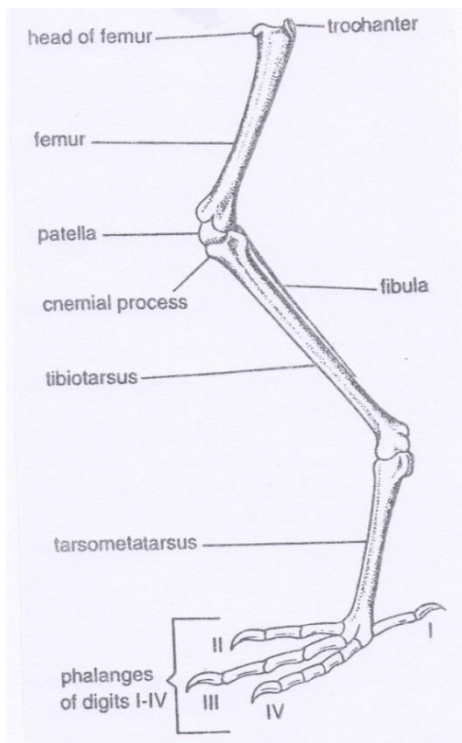
**FIGURE 10. Part of the pigeon endoskeleton, showing complete ribs with two parts: dorsal, which articulate with vertebral column, called vertebral rib which bears uncinat process. Ventral part called sternal rib, articulate with keeled sternum.**



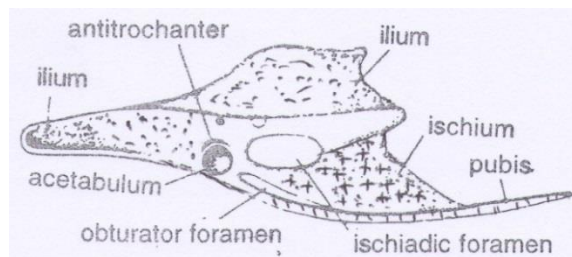
**FIGURE 11. Pigeon's pectoral girdle bone articulates with sternum through coracoid.**



**FIGURE 12. Wing bones of pigeon.**



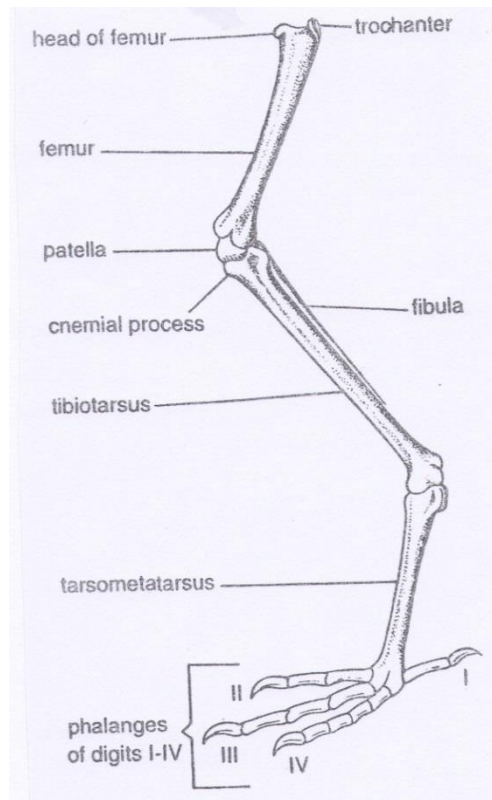
**Hind limb**



**Pelvic girdle**

**FIGURE 13. Pigeon pelvic girdle and hind limb.**





**FIGURE 14: Pigeon left hind limb bones.**