This bone has two surfaces and longation. three borders; the external or dorsum surface is divided into two unequal portions by a ridge, callned the spie of Scapula; the anterior divi sion is the smallest, and is called the " Fossa antea spinatus,"—the other receives the name of the "Fossa-Postea spinatus." These canties are filled by two large muscles, viz.: the Antea Spinatus and Postea Spinatus. These muscles are very liable to injury, especially in young horses when first put to work, and as a consequence the muscular fibre is wasted in some cases to a great extent, giving rise to a distinct hollow extending to the lower part of the scapula—the name applied to such an occurrence in this country is Sweeny.

The internal surface is slightly concave, and is roughened for the attachment of muscles, &c. The anterior border inferiorly terminates in a rough and somewhat hook-shaped process called the corracoid process.

The Apex of the Scapula presents upon the articulatory surface an oval shaped depression called the Gleanoid cavity, into which fits the head of the Humerus or bone of the shoulder. K, the Humerus or long bone, is situated betwixt the Scapula and the bones of the arm, placed in an oblique direction from above downwards and backwards. Long bones are divided anatomically into a body or shaft and two extremities, the shaft is cylindrical and has the appearance of being twisted upon itself. On the superior part of the shaft, is a large prominence called the external tuberosity, to which is attached several muscles; the internal surface is round, having near its middle a roughened eminence called the internal tuberosity. superior or upper extremity of this bone is divided into two portions. One a large hemispherical portion called the head, which with the depression an the apex of the scapula forms the shoulder joint.

The second part of the superior extremity is formed by two eminences called the external and internal trochanter between, which are two cavities receiving the name of Bicipital grooves. Through these grooves passes a strong muscle called the Flexor Brecchi muscle, and it is injury to this muscle at that part situated within the groove, which generally gives rise to lameness in the shoulder. The external trochanter presents two prominences, the summit and convexity. The convexity is situated posteriorly, and serves to prevent dislocation of the The inferior or lower extremity is dijoint. vided into two by a channel or groove. two divisions are called the external and internal condyles. Between the condyles posteriorly is a deep oval pit or fossa called the condyloid fossa, into which is received the beak of the Olecranon or point of the elbow; the inferior extremity of the humerus, with head of the radius and ulna forms the elbow joint.

The bones of the arm are two, and an named respectively (L) the radius, and (M) alma. These bones correspond to the bones of the human arm betwixt the elbow and the wrist. The radius is situated in a vertical direction between the humerus and upper nor of bones of the knee, the posterior surface of the body of the radius is concave and roughered, and to the upper part of this portion is attached the ulna (E) which is more distinctly represented in cut 2. The superior or upper part of the radius is di-

vided into two by a prominence, the divisions are called Gleanoid cavities, and on them rest the condyles of the humerus.

E, the *Ulna*, or cubital, consists of a body and projecting part and articulatory surface. The body is triangular, the base being placed against the posterior part of the radius, extending about two thirds down, and is firmly attached by fibro cartilage in the young animal, which in the adult becomes ossifi-The projecting pored. tions terminate in an apex, called the beak of the Olecranon, or the point of the elbow. In the Ox the ulna is much longer, and extends down the whole length of radius.

(U) the carpus or knee, corresponds to the human wrist, and is composed of eight small bones arranged in two rows, four in the upper, the same in the low-

places by ligaments.

upper, the same in the lower. This joint in the horse Figure 2. is formed not only to allow of great freeder of action, but also to prevent concussion in galloping, as the union of the various bone overlap each other, and the whole are embedded in cartilage. The upper row-perform the greatest amount of motion, and the bone forming it are named respectively [comment ing at the inside] the Scaphoid, Lunar, Cubeform, and Trapezium. The scaphoid is the largest bone of the lower row are the Trapezous in the bone of the lower row are the Trapezous situated to the inner side the Os Magnus.

superior or upper

The bones of the lower row are the Trapezois situated to the inner side, the Os. Magnusthe largest bone of the knee, the Unciform, and Pisiform, which is an exceedingly smoone, and often overlooked in dissection. To whole of these bones are firmly held in the