

Two grand divisions are indicated.

I. The *Elephant*, *Tapir* and *Hog* groups are alike in being—

- (1.) Prosthenic in general structure.
- (2.) Gross-amplificate; rarely long-amplificate in the limbs.
- (3.) Not amplificate in the forehead through an outgrowth of bony horns—the only horns being nasal, and these epidermic.
- (4.) Amplificate in the snout, there being, in addition to the anterior elongation of the cranium, a fleshy elongation, or sometimes an epidermic horn.
- (5.) STHENORHINES, the elongate snout being a power-organ for aid in feeding, etc.

II. The *Solipeds* and *Ruminants*, on the contrary, are—

- (1.) Metasthenic in general structure, and, therefore, STHENOMERES.
- (2.) Long-amplificate in the limbs, neck and head, and sometimes, *in addition*, gross-amplificate.
- (3.) Long-amplificate in the forehead through an outgrowth of horns, except in the superior group of Solipeds and the inferior or hypotypic species.
- (4.) Not amplificate in the fleshy part of the snout.
- (5.) Not Sthenorhines—having no use for the nose but the legitimate one.

The two groups are then—

I. The Prosthenics, or STHENORHINES, including the *Elephant*, *Tapir* and *Hog* groups.

II. The Metasthenics, or STHENOMERES, including the *Solipeds* and *Ruminants*.

The species of the *Hog*-group and *Tapir*-group are closely related, in general form; in their short limbs; in the long and powerful and, thereby, *working* snout; in their teeth approximating to those of the Carnivores; and in the omnivorous character or tendency of some species. And the relation of the *Tapirs* to the *Elephant*-group is no less striking. These affiliations have been generally admitted by zoologists. The species of the *Tapir* and *Hog* groups, especially the latter, are the most Carnivore-like of Herbivores.

So, among the Sthenomeres, the living *Ruminants* have by all been associated in classification. The *Solipeds* alone have been arranged in most systems with the *Pachyderms*. But these are metasthenic like the *Ruminants*, being the strongest of Sthenomeres and the most valuable of draught-animals; they are grazing animals, like the *Ruminants*, and have no rooting nose; they have the same great length to the void interval on the jaw between the molar and the other teeth; and they have similar long-amplificate limbs. While, then, the *Horse* has undeniable