or nervous system, have not been referred to among the above characteristics, because (1) they often undergo very wide variations under a given type, and especially in its inferior or degradational subdivision; further, (2) when any internal condition is distinctive of a natural group of species, there is always some type or plan of general structure corresponding to it in limits; and (3) the type or plan of structure is the surest criterion as to whether a group is natural or not. As an example of this last, it may be observed that the Radiate or phytoid plan or type of structure overrides vast diversities, as to the nervous, digestive and reproductive systems; and so it is, though to a less degree, with subordinate types or plans of structure. Herbivores and Carnivores, regarding only the characteristic of food, blend as completely as any Lamarckian could desire; for there are omnivorous species of both tribes. And again, looking to the characteristics of the placenta, a point seemingly of great importance because connected with the process of development, -a decidua is developed, according to Huxley, in the Herbivorous Elephant and Hyrax, as well as in the Carnivores and higher Mammals, Bats, Insectivores and Rodents, but not in the Horse, Hogs, or Ruminants. And still Carnivores and Herbivores are in structure distinct natural groups. Besides other decisive distinctions, the former have without exception prehensile fore-feet, while in the latter, these organs are defunctionated of this power of prehension, and are simply locomotive organs.

CLASSIFICATION OF INSECTS.

The three grander subdivisions of Insects have been indicated in Article I, on page 344—namely (1) Prosthenics or Ctenopters, (2) Metasthenics or Elytropters, (3) Thysanures or Apters.

The transition from the Prosthenics to the Metasthenics has been shown to depend on a transfer of force and function away from the systemic centre; and this by an abrupt transition, producing an abrupt downward step in grade.

This retroferent transfer is exhibited prominently in the wings, the anterior wings in the Metasthenics having little or no use in flying. These organs have been stated to have eminent importance in the order of Insects because the type is aërial. There is additional reason for this importance in the fact that the dorsal side of an animal is the superior, and the ventral, the inferior; or, the former is the more central in the life-system, and the latter the more circumferential.

As the series of legs, as well as wings, may present cases of transfer of locomotive functions, the terms *Prosthenics* and *Metas-thenics* become more precise if reference to the wings is included. They will thus be $(\pi\tau s gor$ being the Greek for wing) (1) Ptero-prosthenics, and (2) Ptero-metasthenics. The two-winged species