THE PHYLOGENY OF THE SOUL

representative is the lancelot or amphioxus; the psychic organ remains a simple medullary tube, and contains a regularly segmented spinal cord, without brain.

II. Second stage—the cyclostomata: the oldest group of the craniota, now only represented by the petromyzontes and myxinoides: the fore-termination of the cord expands into a vesicle, which then subdivides into five successive parts—the great-brain, intermediate-brain, middle-brain, little-brain, and hind-brain: these five cerebral vesicles form the common type from which the brain of all craniota has evolved, from the lamprey to man.

III. Third stage—the primitive fishes (selachii): similar to the modern shark: in these oldest fishes, from which all the gnathostomata descend, the more pronounced division of the five cerebral vesicles sets in.

IV. Fourth stage—the amphibia. These earliest land animals, making their first appearance in the Carboniferous period, represent the commencement of the characteristic structure of the tetrapod and a corresponding development of the fish-brain: it advances still further in their Permian successors, the reptiles, the earliest representatives of which, the tocosauria, are the common ancestors of all the amniota (reptiles and birds

on one side, mammals on the other).

V.-VIII. Fifth to the eighth stages—the mammals. I have exhaustively treated, and illustrated with a number of plates, in my Anthropogeny, the evolution of our nervous system and the correlative question of the development of the soul. I have now, therefore, merely to refer the reader to that work. It only remains for me to add a few remarks on the last and most interesting class of facts pertaining to this—to the evolution of. the soul and its organs within the limits of the class