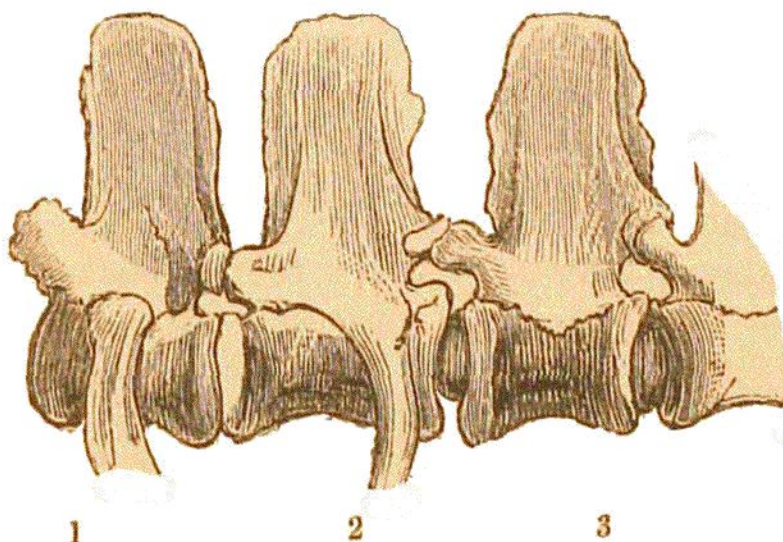


## APPENDIX.

M. Page 486.—ON A PECULIARITY OF STRUCTURE IN THE FIRST CAUDAL VERTEBRA OF THE ADULT GAVIAL.—The discovery of the Swanage crocodile induced me to institute a rigorous examination of the skeletons of the recent gavials in the museum of my friend Dr. Grant, of the London University, with the view of determining the affinities of the fossil remains. In the course of my investigation I detected a peculiar conformation in the *first caudal* or *coccygeal* vertebra of the recent gavial, which, strange to say, appears to have escaped the notice of previous observers. The vertebræ of the existing crocodilian family are invariably concave in front, and convex behind; but the *first caudal* (3) in the adult gavial is *doubly convex*; and the last sacral vertebra (2) *concave posteriorly*, to receive the anterior convexity or ball of the caudal. These peculiarities are shown in the annexed sketch.



TAB. 153. SACRAL AND CAUDAL VERTEBRÆ OF THE GAVIAL.

Figs. 1, 2. The sacral vertebræ. 3. The first caudal or coccygeal vertebra, which is doubly convex.