

Lonchopteris, 122. Phlebopteris, 123. Clathropteris, 124. Caulopteris, 126. Sigillaria, 129. Stigmaria, 139. Lepidodendron, 144. Lepidostrobus, 148. Halonia, 150. Knorria, 151. Sternbergia, 151. Asterophyllites, 152. Cardiocarpon, 153. Trigonocarpum, 154. CYCADEÆ, 155. Zamia, 157. Pterophyllum, 158. Mantellia, 159. Fruits of Cycadeæ, 160. CONIFERÆ, 162. Araucaria, 163. Coniferous wood, 165—171. Pandanus, 172. PALMACITES, 172. Endogenites, 174. Isle of Sheppey fruits, 175—181. Liliaceæ, 181. Clathraria Lyellii, 182. Chara, 187. Nymphaea, 187. Flowering Dicotyledons, 189. Leaves, 193. Fossil fruits, 194. Carpolithes Smithiæ, 196. Dicotyledonous stems, 196. Retrospect, 198. On collecting fossil plants, 203. British localities of vegetable fossils 205.

## PART II.—PALÆONTOLOGY, 211.

CHAPTER VII.—Fossil animalcules, 215. Recent infusoria, 216. Fossil infusoria, 221. Polierschiefer, 223. Richmond infusorial earth, 224. Animalculites of the Chalk, 228. Polythalamia, 232. Fossil pyxidicula, 238. Xanthidium, 239. Nummulites, 242. Microscopical examination of Chalk, &c. 244.

CHAPTER VIII.—Fossil zoophytes, 248. Amorphozoa, 249. Spongites, 252. Faringdon sponges, 255. Siphonia, 258. Choanites, 263. Paramoudra, 268. Polyparia, 269. Ventriculites, 272. Ocellaria, 279. Flustra, 281. Eschara, 283. Crisia, 285. Retepora, 286. Fenestella, 287. Millepora, 287. Idmonea, 288. Verticillipora, 290. Lunulites, 290. Graptolithes, 290. Fungia, 293. Turbinolia, 294. Caryophyllia, 294. Favosites, 295. Catenipora, 296. Syringopora, 297. Lithostrotion, 297. Cyathophyllum, 297. Astrea, 299. Madrepora, 302. Lithodendron, 303. Geological distribution of fossil Zoophytes, 304. On collecting fossil Corals, 307. Localities, 309.

CHAPTER IX.—Fossil Echinoderma, 311. Crinoidea, 312.

CHAPTER X.—Fossil Star-fishes, 332.

CHAPTER XI.—Fossil Echinidæ, or Sea-Urchins, 340. On collecting fossil Echinoderma, 358.

CHAPTER XII.—Fossil shells, 363. Mollusca, 365. Fossil bivalve shells, 370. Shelly Septaria, 372. Recent shelly conglomerate, 374—377. Brachiopoda, 378. Lamellibranchia, 384. Monomyaria, 385. Dimyaria, 397. Fresh-water bivalves, 408. Gasteropoda, 412.