

LECTURE II.

1. Introductory observations. 2. Extinction of animals. 3. Animals extirpated by human agency. 4. The apteryx australis. 5. The dodo. 6. The Irish elk. 7. Epoch of terrestrial mammalia. 8. Character of the ancient alluvial deposits. 9. Classification of mammalian remains. 10. Comparative anatomy. 11. Adaptation of structure in animals. 12. Osteological characters of the carnivora. 13. Structure of the herbivora. 14. Structure of the rodentia, or gnawers. 15. General inferences. 16. Fossil bones. 17. Fossil elephants, or mammoths. 18. Mammoth and rhinoceros in ice. 19. Teeth of recent, and fossil elephants. 20. The mastodon. 21. Mastodons from the Burmese empire. 22. The sivatherium. 23. The megatherium. 24. The megalonyx. 25. The sloth. 26. Fossil hippopotamus, rhinoceros, horse, &c. 27. The dinotherium. 28. Fossil carnivora in caverns. 29. Cave of Gaylenreuth. 30. Forster's Höhle. 31. Bone caverns in England.—Kirkdale cave. 32. Diseased bones of carnivora found in caves. 33. Human bones, and works of art in caverns. 34. Osseous breccia, or bone conglomerates. 35. The rock of Gibraltar. 36. Osseous breccia of Australia. 37. Retrospect..... p. 113

LECTURE III.

1. Introductory remarks. 2. Substances composing the crust of the globe. 3. Crystallization. 4. Stratification. 5. Inclined and vertical strata. 6. Veins and faults. 7. Chronological arrangement of the strata. 8. Tertiary formations. 9. Classification of the tertiary strata. 10. Fossil shells. 11. Mineralogical characters of the tertiary system. 12. Newer tertiary or pliocene deposits. 13. Crag of Norfolk and Suffolk. 14. The Sub-Apennines. 15. Middle tertiary, or miocene deposits. 16. Lower tertiary, or eocene deposits. 17. The Paris basin. 18. The London basin. 19. The Isle of Sheppey. 20. Fossil fruits of the tertiary strata. 21. Upper marine, or Bagshot sand. 22. Artesian wells. 23. The Hampshire or Isle of Wight basin. 24. Alum bay. 25. London clay of the Hampshire basin. 26. Fresh-water strata of the Isle of Wight. 27. Organic remains of the Paris, London, and Hants basins. 28. Fossil plants and zoophytes. 29. Tertiary marine and fresh-water shells. 30. Nummulites, and other cephalopoda. 31. Crustacea and fishes. 32. Fossil birds. 33. Fossil animals of Paris. 34. Palæotheria and anoplotheria. 35. Fossil quadrupeds, or monkeys. 36. Tertiary strata of Aix, in Provence. 37. Fossil insects. 38. Lacustrine formation of Cœningen. 39. Fossil fishes of Monte Bolca. 40. Tertiary volcanoes of France. 41. Extinct volcanoes of Auvergne.