

plan, be the result of the operation of blind, *unguided* physical agents, acting by the appetencies of these organized beings? How indeed could they have any appetency to put on the appearance of a set of objects they never saw? The thing is morally impossible. In fact, when we survey the whole series of natural objects, and find throughout a system of representation, as well as a chain of affinities, it is as clear as the light of day, that an infinite Intelligence must first have planned, an Almighty Hand then executed, and that infinite Love still sustains the whole.

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## CHAPTER VI.

### FUNCTIONS AND INSTINCTS. RADIARIES.

It happens not seldom to the student of the works of creation, when he is endeavouring to thread the labyrinth of forms in any of the three kingdoms of nature, and has arrived at any given point, to feel doubtful which course to pursue. The road divides, perhaps into two branches, which both promise to lead him right. At the very outset of the animal kingdom, as we have seen, there was some uncertainty, whether we should begin by the Infusories or Polypes, and now the Tunicaries, or Ascidians as some call them, at the first blush seem more closely connected with the Polypes, than the Radiaries, which Lamarck has placed next to them; but when we consider that the organization is much more advanced in the former than in the latter, not only in the organs of digestion, but in those of sensation, respiration, and circulation, we feel satisfied that the latter, where the