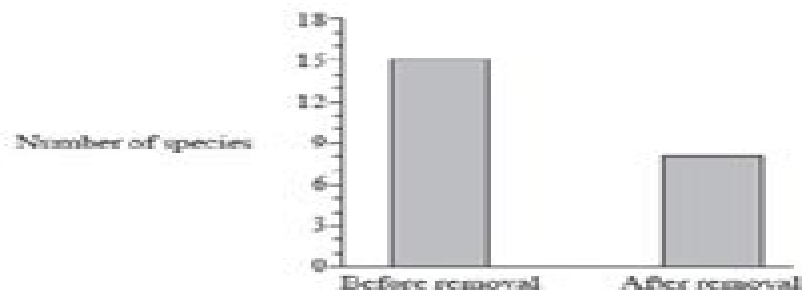


1. In a study examining the ecological role of keystone species, the sea star, *Pisaster*, was removed from a study area. The sea star is a top carnivore. After an extended period of time, researchers returned to analyse changes in the species diversity in the study area. The bar chart shows the species diversity before and after the removal from the habitat.



[Source: adapted from R.T. Paine, (1966), *The American Naturalist*, 100(918), pages 65–75]

- (a) State the effect of removing the sea star. [3]

.....

- (b) (i) Define keystone species. [1]

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.....

- (ii) Suggest reasons for the change in species diversity after removal of the sea star. [3]

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