- ₩ The fossil record shows that over time, descent with modification produced increasingly large differences among related groups of organism. **Biogeography**
- Example: islands that have many plant and animal species are endemic (they are nowhere else in the world) **a** most island species are closely related to species from the nearest mainland or a neighboring island Darwin explained this observation by suggesting that islands are colonized by species from the nearest mainland these colonists eventually gave rise to new species as they adapt to their environments **a**

What is theoretical about Darwin's view of life?

- Repattern of evolution: the observation that life has evolved over time \rightarrow has been documented directly and is supported by a great deal of evidence. Reprocess of evolution: that natural selection is the primary cause of the observed pattern of evolutionary changes \rightarrow makes sense of massive amount of data the effect of natural selection can be observed and tested in nature Reprocessing the primary cause of the observed pattern of evolutionary changes \rightarrow makes sense of massive amount of data the effect of natural selection can be observed and tested in nature Reprocessing the primary cause of the observed pattern of evolutionary changes.
- **™** A theory (in science) accounts for many of a velons and explains and integrates a great variety of phenomena of the lationary biologists now recognize that natural selection is not the only in the answer responsible for evolution **™**

Test your Knowledge: My At swe's (I was right Wo Hoc!)

1. B 2.D 3.2 4. C 5. A 6 one dug resistant DDT was present prior were present prior the administration of the administration of the day and natural selection cause the increase in drug resistant DDT.

3. Adaptions are often compromises

Each organism must do many different things

Trade-off Ability

Humans - prehensile hands and Prone to sprains, torn ligaments,

flexible limbs and dislocations

Seals have flippers to allow them Spend part of their time of rock to swim well and have to awkwardly waddle

around.

4. Chance, natural Selection, and the environment interact

Chance events can affect the subsequent evolutionary history of populations. Ex: population of sparrows flying and some go into/ are trapped in a garage, while the rest are caught in a storm and die. The dead sparrows are less fit than the alive sparrow, but it was just an event of chance.

Q With these constraints, evolutions does not craft "perfect" organisms

Preview from Notesale.co.uk

Preview page 16 of 16