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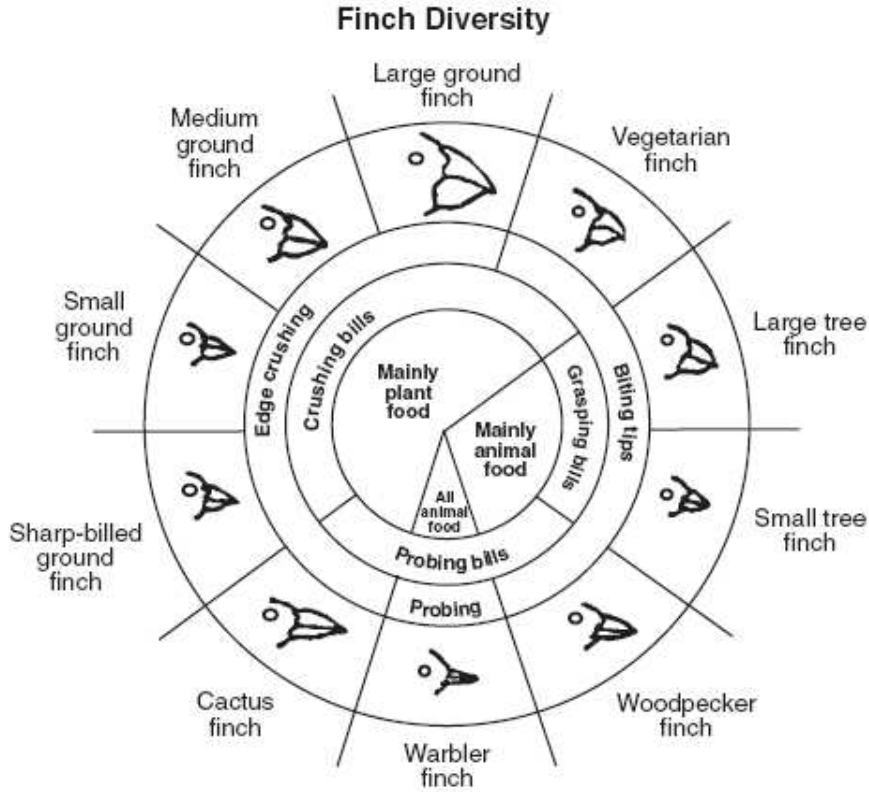
NAME: _____

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Living Environment Regents Exam Questions

Base your answers to questions 68 and 69 on the finch diversity chart below, which contains information concerning the finches found on the Galapagos Islands.

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68 Identify *one* bird that would most likely compete for food with the large tree finch. Support your answer. [1]

68

69 Identify *one* trait, other than beak characteristics, that would contribute to the survival of a finch species and state *one* way this trait contributes to the success of this species. [2]

69



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Base your answers to questions 72 and 73 on the information below and on your knowledge of biology.

In birds, the ability to crush and eat seeds is related to the size, shape, and thickness of the beak. Birds with larger, thicker beaks are better adapted to crush and open seeds that are larger.

One species of bird found in the Galapagos Islands is the medium ground finch. It is easier for most of the medium ground finches to pick up and crack open smaller seeds rather than larger seeds. When food is scarce, some of the birds have been observed eating larger seeds.

72 Describe *one* change in beak characteristics that would most likely occur in the medium ground finch population after many generations when an environmental change results in a permanent shortage of small seeds. [1]

72

73 Explain this long-term change in beak characteristics using the concepts of:

- competition [1]
- survival of the fittest [1]
- inheritance [1]

73

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