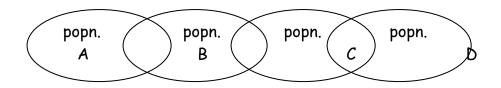
Higher Biology

Natural Selection and Speciation Checktest

- 1. Explain the meaning of the following terms:
 - (a) Species
 - (b)Gene pool
 - (c) Gene flow
- 2. Why do organisms tend to produce more offspring than the environment? can support?
- 3. Explain how a mutation could result in a new phenotype emerging within a population.
- 4. What is the term used to describe the "weeding out" of weaker organisms?
- 5. Explain why the dark form of the peppered moth had a selective advantage over the light form in the 1950's.
- 6. Name the three types of isolating mechanisms and give an example of each.
- 7. What role does an isolating mechanism play in the process of speciation?
- 8. If a population is split and each population separated, at what point can it be stated that they have evolved into separate species?
- 9. In the diagram below, how many species are there? Justify your answer.



10. State **two** points, which suggest that the evolution of Darwin's finches is an example of adaptive radiation.