Name Answer Kuy

| Biol 130 Genetics | |
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| Quiz 5 | |
| March 21, 2007 SPRING!!! | |
| | |
| What genetic terms best describe the following genetic traits? Give one specific example for each. | |
| a. When neither of the true-breeding parental traits are exhibited in the offspring. Instead an intermediate phenotype is expressed. Incomplete dominance | - |
| Example: <u>Snap dragon color dominant homozygous</u> = Red +0.5 reressive = white hiterozygous = pink | |
| b. When a heterozygote displays both phenotypes equally. <u>co-dominance</u> +0 | 5 |
| AB = boun types of carponydrates present on real blood cells . +0 | .5 |
| Y*X 5# 201 | |
| Researchers observed that among humans who inhabit a particular tropical island, 15 out of 500 are albino, a recessive phenotype. | |
| a. Assuming Hardy-Weinberg equilibrium, what is the frequency of the albino allele? | 1 |
| b. What is the predicted number of heterozygotes? $(2pq)500 = 141$ | |
| a. What is the likely generated a likely generated as a likely gen | |
| | |
| 3. If albinos are more susceptible to skin cancer and early death a. would the frequency of the albino allele increase, decrease or remain unchanged? | |
| b. Would the frequency of the normal allele increase, decrease or remain unchanged? | 5 |
| c. Which one of the Hardy-Weinberg assumptions would NOT hold true in this case? | |
| i.e. natural selection would be occurring | |
| black white 50% white | |
| | |