<table>
<tr><th>Question Number</th><th>Answer</th><th>Additional guidance</th><th>Mark</th></tr>
<tr><td>7(c)</td><td>An answer that includes the following points:

• N(N-1) correctly calculated (1)

• ∑n(n-1) correctly calculated and inserted into formula (1)

• calculation of D for lake Apoyo (1)

• lake Apoyo has higher biodiversity (as 3.05 is larger than 2.8) (1)</td><td><table><tr><th>Species</th><th>Number of individuals (n)</th><th>n(n-1)</th></tr><tr><td>A. astorquii</td><td>156</td><td>24180</td></tr><tr><td>A. chancho</td><td>45</td><td>1980</td></tr><tr><td>A. flaveolus</td><td>78</td><td>6006</td></tr><tr><td>A. globosus</td><td>8</td><td>56</td></tr><tr><td>A. supercilius</td><td>17</td><td>272</td></tr><tr><td>A. zaliosus</td><td>12</td><td>132</td></tr><tr><td></td><td>(N)=316</td><td>∑n(n-1)=32626</td></tr></table>
D= 3.0509 / 3.05 / 3.051 / 3.1 / 3.0 / 3

ecf applies</td><td>(4)</td></tr>
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<tr><th>Question Number</th><th>Answer</th><th>Additional guidance</th><th>Mark</th></tr>
<tr><td>7(d)</td><td>An answer that includes the following points:

• q^2 correctly calculated (1)

• ($\sqrt{p^2}$=0.6 and) $\sqrt{q^2}$=0.4 (1)

• allele frequency has {not changed / remained the same} (1)</td><td>128÷800 or = 0.16

no ecf

ecf applies from incorrect p and q values in working</td><td>(3)</td></tr>
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