Predator–Prey MCQs – Teacher Answers

1. What is meant by a predator? (Correct answer: C)

   A. An animal that eats plants

   B. An animal that is hunted

   C. An animal that eats other animals

   D. An animal that lives alone

2. Which rule models the hare population without predators? (Correct answer: B)

   A. $H = H - 0.2H$

   B. $H = H + 0.2H$

   C. $H = H + 2$

   D. $H = 0.2H$

3. If there are 60 hares and the birth rate is 0.1, what is the population after one year? (Correct answer: A)

   A. 66

   B. 70

   C. 72

   D. 80

4. Why does the lynx population decrease when there is no prey? (Correct answer: C)

   A. Birth rate

   B. Food rate

   C. Death rate

   D. Migration

5. Which formula models the lynx population without prey? (Correct answer: B)

   A. $L = L + 0.1L$

   B. $L = L - 0.1L$

   C. $L = L + 0.2L$

   D. $L = HL$

6. What does HL represent in the model? (Correct answer: C)

   A. Total population

   B. Births

   C. Hare–lynx encounters

   D. Deaths

7. What pattern is seen in predator–prey graphs? (Correct answer: C)

   A. Constant

   B. Both go to zero

   C. Cycles

   D. Increase forever

8. Why are mathematical models not perfect? (Correct answer: C)

   A. Equations are wrong

   B. Animals ignore maths

   C. They simplify reality

   D. Numbers cannot model nature