

**Option C — Ecology and conservation**

**14. The graph shows how the world rock phosphate production and world population changed between 1900 and 2005.**

(a) Describe the relationship between rock phosphate production and world population. [2] As population increases, so does phosphate production.

(b) Phosphate can be lost from agricultural land in several different ways. State one of these. [1] Nutrient runoff.

(c) Describe how the changes in world rock phosphate production after 1985 may have affected world food supplies. [2] Less food available for increased population. Less agricultural output.

**15. The illustration shows a Gersmehl diagram of the taiga biome.**

(a) Outline what is represented by the arrows in the Gersmehl diagram. [1] Nutrient (energy) flow.

(b) Explain how the amount of litter in a tropical rainforest would differ from the taiga's and how this would be represented in a Gersmehl diagram. [3] The litter layer is less in the tropical rainforest, there would be a greater number of decomposers in the rainforest than taiga, and nutrients would be stored in biomass in the rainforest than the taiga so the circle would be larger.

**16. The Vancouver Island marmot (*Marmota vancouverensis*) is a small rodent that is only found on Vancouver Island and is listed as critically endangered. Captive breeding and release programs for this species began in 1997 to attempt to restore population numbers on the island. The graph shows the causes of death of the marmots born in the wild and of those marmots released after being born and reared in captivity.**

(a) (i) Distinguish between levels of predation in marmots born in the wild and those born in captivity. [1] Predation is greater in those born in captivity than those born in the wild.

(ii) Suggest reasons for the differences in predation. [2] The parents shield them from predators in the wild, and those born in the wild are favored in natural selection.

(b) Distinguish between ex situ and in situ conservation of endangered species. [1] In situ is natural conservation, ex situ is artificial conservation.

**17. In Wales, UK, the grey squirrel (*Sciurus carolinensis*) is an alien (possibly invasive) species and the red squirrel (*Sciurus vulgaris*) is endemic (only lives there). The maps show the distribution of red and grey squirrels in 1945 and 2010.**

(a) (i) Outline the changes of distribution of the grey squirrel from 1945 to 2010. [2] Grey squirrel distribution increased and red squirrel distribution decreased.

(ii) Suggest two possible reasons for the change in distribution. [2] No/few gray squirrel predators, few gray squirrel competitors, gray squirrel resistance to disease, no physical barrier to prevent the spread of gray squirrels.

(b) The niches of the red and grey squirrels overlap. Explain the concept of competitive exclusion with respect to the changes in squirrel distribution shown in the maps. [3] Competitive exclusion is when two different species are occupying a similar niche in the same location, and they cannot coexist. One of the two competitors always has an advantage over the other, like the gray squirrel has above the red squirrel. The habitat favors the gray squirrel in competition

# Ib Biology Hl Paper 3

**D Keegan**

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