

the governing physical environment in certain regions (and consequently cause a shift in predominant vegetation). Ocean pH will also fall as a result of CO_2 absorption (again, with consequent changes in biotic communities).

- Depending on the crop involved, growing range may shrink, expand, or shift. Crop plants may be affected more by higher night temperatures than by higher daytime temperatures. High night temperatures affect the ability of some crop plants such as rice to set seed and fruit. This will cause a reduction in yield, and so also a decrease in the amount of seed available.
 - Farmers may adjust by planting different crops in some areas, e.g. crops that are able to grow and set seed at higher temperatures. New crop strains may be able to be developed for the higher temperature ranges.
- Evidence suggests that insect populations will be affected by global warming. Plant fossil data shows that brood damage peaked during past thermal maxima, suggesting that insect populations will increase in size as temperatures rise.
- Migratory birds in the northern hemisphere are now not travelling as far south during the winter months (as higher latitudes become more hospitable) and they are making their migrations north up to two weeks earlier than usual.
 - Migratory birds may arrive at feeding grounds before the main food supply is ready. Plants with daylength-dependent flowering may not yet be flowering and, as a consequence, insects (and seeds and fruits) may not be in the abundance required to feed the migrants. In addition, the distribution of food resources may remain the same, but the birds are not migrating as far south and may be disconnected from their winter food supplies.
- As air temperatures rise, so too does the snow line in alpine areas. Animals living on or above the snow line will be forced into smaller areas. If they are unable to move to higher latitudes where the snow line is lower, it is inevitable that they will become extinct in their native ranges as they run out of food and space.

132. Global Warming and Effects on the Arctic (page 183)

- Both ice sea-ice albedo and area cause more heat to be absorbed by the land and sea. This heat causes the ocean's water to warm during the summer and therefore takes longer to cool during the fall (autumn). This leads to winter sea-ice taking longer to form and being thinner than usual in the winter. Thin sea-ice has a lower albedo than thick sea-ice and melts faster in the spring leading to even less sea-ice the following winter. Thus thin ice and small area cover causes even thinner and less cover the following year in a potentially perpetual cycle until the sea-ice is lost.
- Polar animals that live out on the sea-ice will be directly affected as the area covered by sea-ice reduces. Polar bears which hunt out on the ice find it harder to find food and must swim longer distances to firm ice. The reduction of sea-ice cover may also affect species that live below the ice (as more light and heat will penetrate the waters and to deeper depths).

133. Ocean Acidification (page 184)

- Ocean acidification describes the decline in the pH of ocean waters towards a less alkaline state.
 - Ocean acidification makes it harder for shell making organisms to obtain the carbonate ions they need to build shells causing them to have thinner or deformed shells.
- Since the 1850s the pH of the oceans has been declining.
 - A rise in atmospheric CO_2 level. CO_2 dissolves into water forming carbonic acid, which lowers the pH.

134. Applying the Precautionary Principle (page 185)

- The company planning to exploit the resource would have to show that their operation would not adversely affect the environment, if they could not, then the resource would not be allowed to be extracted.

- Examples may include: food control measures (e.g. use of stop banks and dams), genetically modified food (starvation in famine plagued countries), damming of rivers for hydroelectricity projects (use of more coal fired power stations), use of pesticides (e.g. organophosphates).

135. Chapter Review (page 186)

No model answer. Summary is the student's own.

136. KEY TERMS: Did You Get it? (page 188)

- autotroph (M), carbon cycle (C), consumer (E), detritivore (J), ecological pyramid (O), food chain (A), food web (D), global warming (B), greenhouse gas (L), heterotroph (F), quadrat (G), saprotroph (H), trophic level (K)
- Corn: producer
Mouse: 1st order (primary) consumer
Corn snake: 2nd order (secondary) consumer
Hawk: 3rd order (tertiary) consumer
- Students' own research and opinion. Students need to look at the validity and bias of the information and sources when formulating an opinion.

137. Genes, Inheritance, and Selection (page 191)

- The only source of allelic variation in organisms that reproduce asexually is mutation.
- Each individual has an effectively unique combination of alleles. Each individual is subjected to selection pressures that will affect its ability to survive and reproduce. In this way, the individual's allele combination is tested, with the better suited being able to produce more surviving offspring.
- Sexual reproduction, through independent assortment and random combination of gametes at fertilization, shuffles alleles into new combinations. The new allele combinations provide variation, the raw material on which natural selection acts. Selection acts on the phenotype (being the result of genotype and environment). Selection acts for or against particular allele combinations, enhancing or reducing the representation of these in the next generation. Selection therefore sorts the variability in a gene pool and establishes adaptive genotypes.

138. The Fossil Record (page 192)

- Preserved remains provide a record of the organisms alive when the sediment was laid down. Different stratigraphic levels record different organisms.
- The evolution of the modern horse is well documented in the fossil record with numerous fossils, including transitional fossils, which show the major features of equid evolution over time (change in body size, limb length, tooth structure, toe reduction). The extensive fossil record has enabled scientists to put together a comprehensive and robust model of horse evolution (including speciation and extinctions).

139. Selection and Population Change (page 193)

- As milk yield in Holstein cows increases fertility decreases.
 - It suggests the genes for high milk yield and low fertility (or low milk yield and high fertility) are carried on the same chromosome (linked) and are very close together so that no crossing over and recombination occurs.
- Milk yield will ultimately be limited by fertility (very high yield cows will have lower fertility and produce fewer offspring).
- Selective breeding is an artificial form of natural selection usually based around the improvement of one or two traits desired by humans. In this case high milk yield. Natural selection favours traits that will increase reproductive success but this may result in a compromise (best balance) between correlated (genetically linked) traits, e.g. milk production and offspring production (fertility) are both costly in terms of energy expenditure so in nature there will be a balance. Humans have selected for milk yield over fertility to the detriment of the latter (probably because low fertility can be

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