

20. Human influences on ecosystems

20.4 Conservation

Paper 1 and 2

Question Paper

Paper 1

Questions are applicable for both core and extended candidates

- 1 Which statement about conservation is correct?
 - A Captive breeding programmes can be used to conserve endangered species.
 - B Climate change is reducing the number of species that are endangered.
 - C Habitat protection increases the number of species that are endangered.
 - D Sustainable resources are those that are used more rapidly than they are replaced.

- 2 What are reasons why species become endangered?
 - A habitat destruction, hunting and introduced species
 - B habitat protection, introduced species and monitoring
 - C habitat destruction, hunting and captive breeding programmes
 - D hunting, pollution and seed banks

- 3 What could prevent a species from becoming endangered?
 - A captive breeding programme
 - B climate change
 - C introduction of other species
 - D pollution

Paper 2

Questions are applicable for both core and extended candidates unless indicated in the question

4 What are **two** reasons for organisms becoming endangered?

- 1 habitat destruction
- 2 monitoring
- 3 education
- 4 pollution
- 5 captive breeding programmes

A 1 and 4 **B** 1 and 5 **C** 2 and 3 **D** 3 and 4

5 What is an example of the use of genetic modification in agriculture? **(extended only)**

- A** choosing cattle to breed so that alleles for high milk yield will be passed on to their offspring
- B** increasing food production by using insecticides to improve quality and yield
- C** inserting genes into crop plants to improve the nutritional qualities of the plant
- D** selecting crop plants with desirable characteristics and crossing these to produce the next generation

6 One method of conserving fish stocks is to have a minimum mesh size for fishing nets.

How is the mesh size chosen to conserve a particular fish species? **(extended only)**

- A** The holes in the net must be small enough to catch only young fish.
- B** The holes in the net must be small enough to catch all fish old enough to reproduce.
- C** The holes in the net must be large enough to catch some fish of all ages.
- D** The holes in the net must be large enough to allow young fish to escape.

7 The number of Atlantic bluefin tuna fish found in the Atlantic Ocean has significantly decreased in the last 50 years.

Which method would make the biggest improvement in the conservation of tuna fish stocks?

- A decreasing the size of holes in fishing nets **(extended only)**
- B genetic modification of tuna
- C introducing fishing quotas
- D selective breeding of tuna

8 What are reasons why species become endangered?

- A habitat destruction, hunting and introduced species
- B habitat protection, introduced species and monitoring
- C habitat destruction, hunting and captive breeding programmes
- D hunting, pollution and seed banks

9 What is an example of sustainable use of resources? **(extended only)**

- A allowing only young fish to be caught
- B cutting down a forest and not replanting trees
- C controlling the number of fish caught with quotas
- D planting deforested areas with one species of crop plant

10 What can be managed sustainably?

- A taking coal from a coalfield
- B taking gas from under the earth's surface
- C taking oil from an oilfield
- D taking wood from a woodland

11 What is a possible disadvantage of in vitro fertilisation (IVF)? **(extended only)**

- A** Donated eggs and sperm can be used.
- B** Embryos can be screened for genetic disorders.
- C** It requires more medical resources.
- D** Unused embryos can be stored.