

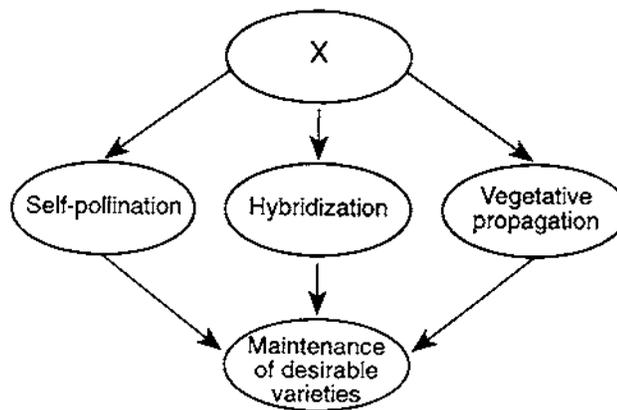
1. Man has increased the rate of evolution by

- (1) establishing game laws
- (2) preventing polyploidy
- (3) **utilizing selective breeding**
- (4) protecting certain species from extinction

2. Santa Gertrudis cattle were developed from crosses of American cattle with cattle from India. Which method did the breeder most likely use to develop the Santa Gertrudis cattle?

- (1) exposure to mutagenic agents
- (2) **animal hybridization**
- (3) genetic engineering
- (4) vegetative propagation

3. The diagram below represents some methods used by plant growers to produce and maintain desirable varieties of plants.



Which term belongs in area X?

- (1) use end disuse
- (2) **artificial selection**
- (3) synapsis
- (4) gradualism

4. Breeders have developed corn with 15-foot stalks and pumpkins weighing 300 pounds. Which method did these breeders most likely use to develop these new varieties?

- (1) regeneration
- (2) natural selection
- (3) **artificial selection**
- (4) grafting

5. A common practice used by breeders to maintain a desired trait in dogs is

- (1) **artificial selection**
- (2) regeneration
- (3) vegetative propagation
- (4) sporulation

6. Breeders have developed a variety of chicken that has no feathers. Which methods were most likely used to produce this variety?

- (1) **artificial selection and inbreeding**
- (2) grafting and hybridization
- (3) regeneration and incubation
- (4) vegetative propagation and binary fission

7. Artificial selection is illustrated by

- (1) random mating taking place in a population
- (2) the appearance of a new species on an isolated island
- (3) **a gardener producing a new hybrid by cross-pollinating plants**
- (4) wind assisting the pollination of grass in a field

8. The cloning of cells involves the process of

- (1) meiotic cell division
- (2) fusion of gametes
- (3) **mitotic cell division**
- (4) formation of spores

