

Multiple-choice test

Chapter 16: Reproduction in plants

Click on the correct answer to each question.

- 1 What is always true of sexual reproduction?
 - A Gametes are involved.
 - B Only mitosis takes place.
 - C The offspring are genetically identical.
 - D There are two parents.
- 2 What is always true of asexual reproduction?
 - A Fertilisation is involved.
 - B Stem tubers are formed.
 - C The offspring are genetically different from one another.
 - D There is only one parent.
- S 3 What is the name of the type of cell division by which gametes are made?
 - A fission
 - B haploid
 - C meiosis
 - D mitosis
- 4 What is formed when two gametes fuse together?
 - A a chromosome
 - B an embryo
 - C a seed
 - D a zygote
- 5 What features are characteristic of the pollen of wind-pollinated flowers?
 - A produced in large quantities, spiky
 - B produced in large quantities, smooth
 - C produced in small quantities, spiky
 - D produced in small quantities, smooth

6 Which part of a flower receives pollen during pollination?

- A anther
- B stamen
- C stigma
- D style

7 Where is the female gamete in a flower?

- A in the anthers
- B in the pollen grains
- C in the ovule
- D in the stigma

S 8 What passes through the style and into the ovule, after pollination has taken place?

- A a female nucleus
- B a male gamete
- C an embryo plant
- D a pollen grain

9 What is the function of the cotyledons in a seed?

- A absorb water
- B grow into the new root
- C protect the embryo
- D store food

10 Which conditions do all seeds need for germination?

- A light, oxygen, a suitable temperature
- B oxygen, a suitable temperature, water
- C a suitable temperature, water, light
- D water, light, oxygen