

TRIUMPH

ANSWER KEY - PLUS TWO BOTANY - VERSION A

1. clones (1)
2. Sporopollenin (1)
3. Outbreeding (1)
4. Male gamete and two polar nuclei (1)
Inside the embryo sac of angiosperms (1)
5. a) Bryophyllum
b) Offsprings produced through vegetative propagation are morphologically & genetically similar; called clones. (2)
6. Flowers with exposed anther & stigma (1)
No. cleistogamous flowers are closed flowers (1)
7. Multiple ovulation Embryo Transfer Technology (1)
Benefits (1)
8. a) Capacity to generate whole plant from any part (1)
b) Part of plant or cell used for tissue culture (1)
9. a) special microscopic motile, asexual reproductive structures (2)
eg:- Chlamydomonas
b) Zygote - Diploid fertilised product. (1)
10. a) Endosperm - Nourishment to embryo. (1)
b) Explanation (2)
11. Explanation & Examples (3)

VERSION B

- 1) Perisperm (1) 2. Tapetum (1) 3. Apis Indica (1)
4. a) Unisexuality b) Self compatibility c) Anther & stigma at different positions d) Anther & stigma mature diff. time (2)
5. Sporogenous tissue → Pollen mother cell → Microspore tetrad.
d) pollen grains. (2)
6. Meristem. Important points (2)
7. Asexual repⁿ called vegetative propagⁿ. (2)
8. Flowers unisexual, light pollen grains (c) stigma featheri.
d) Exposed stamen.
9. Neat labelled diagram (3)
10. Are 3 diff types of ~~out~~ outbreeding are (1+1+1)
a) Outcrossing b) cross breeding c) Interspecific hybridisⁿ
11. Explanation (3)