

Chapter 4-Review Questions

1. What are the components of a complete flower?
2. How does a micro-sporocyte become a micro-gametophyte (mature pollen grain)?
3. How does a mega-sporocyte become a mega-gametophyte (embryo sac)?
4. Distinguish between pollination and fertilization and describe the process of each.
5. What is double fertilization and why is it unique to angiosperms?
6. What are the various phases of embryo differentiation in dicots?
7. How does the embryo stage of dicots differ from that of monocots and gymnosperms?
8. What are the components of a seed?
9. Distinguish between endospermic, non-endospermic, and unclassified morphological seed types.
10. What are the 3 stages of seed development? What happens during each of these stages?
11. Distinguish between orthodox and recalcitrant seeds.
12. What is the difference between apomixis and polyembryony?
13. How do hormones affect various seed developmental responses?