

# AP Board Intermediate 2nd Year Botany Important Questions

1. Give an account of glycolysis. Where does it occur? What are the end products? Trace the fate of these products in both aerobic and anaerobic respiration.
2. Give a brief account of the tools of recombinant DNA technology.
3. Describe the tissue culture technique and what are the advantages of tissue culture over conventional method of plant breeding in crop improvement programmes?
4. Write the physiological responses of gibberellins in plants.
5. Explain the conjugation in bacteria.
6. Explain the Incomplete dominance with an example.
7. How many types of RNA polymerases exist in cells? Write their names and functions.
8. List out the beneficial aspects of transgenic plants.
9. "Transpiration is a necessary evil". Explain.
10. Explain the steps involved in the formation of root nodule.
11. Tabulate any eight differences between C<sub>3</sub> and C<sub>4</sub> plants/ cycles.
12. Describe TCA cycle.
13. Explain various steps involved in r-DNA technology.
14. What is hybridization? Describe the procedure of hybridization.
15. What is transpiration? How does it differs from evaporation?
16. What is Richmond Lang effect? 3. What are pleomorphic bacteria? Give one example.
17. What is linkage? Who discovered it?
18. What is translation? Where does it occur?
19. Differentiate between Purines and Pyrimidines?
20. Define Gene Revolution?