

**TELANGANA STATE BOARD OF INTERMEDIATE EDUCATION,  
HYDERABAD**

**BOTANY - II**  
**MODEL QUESTION PAPER (w.e.f. 2013-14)**

**Time: 3 hrs**

**MaxMarks: 60**

**SECTION - A**

***Answer all the questions. (Very Short Answer Type)***

**10 x 2 = 20 Marks**

1. What is transpiration? How does it differ from evaporation?
2. What is Richmond Lang effect?
3. What are pleomorphic bacteria? Give one example.
4. What is linkage? Who discovered it?
5. What is translation? Where does it occur?
6. Differentiate between Purines and Pyrimidines?
7. Define Gene Revolution?
8. What is molecular farming?
9. What are synthetic seeds?
10. How do Biofertilizers enrich the fertility of the soil?

**SECTION - B**

***Answer any six questions. (Short Answer Type Question)***

**6 x 4 = 24 Marks**

11. Explain cohesion tension theory?
12. What is active transport? Explain the mechanism involved in it?
13. Write any 8 differences between C3 and C4 plants?
14. What are growth curves? Explain the three phases of the growth curves.
15. What are viruses? Explain the chemical structure of Viruses.
16. Explain the monohybrid cross of Mendel and mention the first law of Mendel.
17. What is meant by genetic code? Write the properties of genetic code?
18. Explain genetically modified crops with 2 suitable examples.

**SECTION - C**

***Answer any two question (Long Answer Type)***

**2 x 8 = 16 Marks**

19. Describe TCA cycle.
20. Explain various steps involved in r-DNA technology.
21. What is hybridization? Describe the procedure of hybridization.