

**E-54**

Roll No.....

Total No. of Questions : 15]

[Total No. of Printed Pages : 2

**HSEIIKROXII**

**45019-A**

**BOTANY**

**(Biology)**

Time : 1½ Hours + 15 Minutes extra to read the question paper]

[Maximum Marks : 35

**(Long Answer Type Questions)**

1. What is Co-dominance ? Explain with special reference to ABO human blood group.

Or

Define DNA replication. Describe semi-conservative replication of DNA with the help of diagram. 1+4

2. What is ecological succession ? Describe the process of ecological succession.

Or

Write the sources of water pollution. What steps should be taken to control water pollution ? 2+3

**(Short Answer Type Questions)**

3. What is Pollination ? Name the agencies which promote cross-pollination.

1+2

4. What is a test cross ? How it differs from back cross ? 1+2  
5. Write the applications of Plant breeding. 3  
6. Write short notes on mutualism and parasitism with one example each... 3

**(Very Short Answer Type Questions)**

7. What is double fertilization ? 2  
8. Differentiate between biopiracy and biopatent. 2  
9. Write a short note on sanctuaries. 2  
10. What are the effects of Global warming ? 2

**(Objective Type Questions)**

Answer the following questions as required :

11. Removal of anther from flower bud is called emasculation.  
(True/False)
12. Tesla and Tegmen are present in :  
(a) Flower  
(b) Fruit  
(c) Seed  
(d) Seed coat
13. The synthesis of mRNA from DNA is called .....  
(Give one word)
14. Biogas production is carried out by :  
(a) Thermoacidophiles  
(b) Methanogens  
(c) Ruminants  
(d) Halophiles
15. Define the term biopesticide.