

Roll No.....

**A-3-X**

Total No. of Questions : 14]

[Total No. of Printed Pages : 3

**XIIWZJDAR21**

**5103-X**

**BOTANY**

**(Biology)**

**Time : 1½ Hours]**

**[Maximum Marks : 35**

**Section-A**

1 each

1. Pollen grains are shed at :
  - (A) One celled stage
  - (B) 2-3 celled stage
  - (C) 3-celled stage
  - (D) 4-celled stage
2. Plant bearing both male and female flowers is called .....  
(Fill in the blank)
3. Test cross is cross between an individual and its dominant parent.  
(True/False)
4. Name the first National Park of India.

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**A-3-X**

Turn Over

**Section-B**

2 each

5. How is process of pollination different from fertilization ?
6. What is the category of virus that carries reverse transcriptase ? What is the purpose of this enzyme ?
7. Write short note on symbiotic nitrogen fixation.

*Or*

What is Biogas ? Discuss its production in a gobar gas plant.

**Section-C**

3 each

8. What are stock and scion in grafting ?
9. A woman with blood group O married a man with AB group. Show the possible blood groups of progeny. List the alleles involved in this inheritance.
10. Write *three* characteristics of genetic code.
11. Write short notes on the following :
  - (a) Ex-situ conservation
  - (b) IUCN Red List
  - (c) Protected areas

( 3 )

12. What is Acid Rain ? What are its effects on plants ?

*Or*

What do you mean by plant succession ? Describe the process of succession in a pond.

**Section-D**

5 each

13. Write short note on agrochemicals and their effects.

*Or*

Give an account of energy flow in an ecosystem.

14. What are biocontrol agents ? Give their significance.

*Or*

What are Biofertilizers ? Write down advantages of biofertilizers.

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