

B-3-B

Roll No.....

Total No. of Questions : 14]

[Total No. of Printed Pages : 3

XIIKDAR21

5003-B

BOTANY

(Biology)

Time : 1½ Hours]

[Maximum Marks : 35

Section-A

1 each

1. ✓ RNA that pick up specific amino acid from cellular for protein synthesis is

(A) mRNA

(B) tRNA

(C) rRNA

(D) snRNA

(Choose one correct answer)

2. ✓ Removal of anther or stamens from flower bud to prevent self pollination is called (Give one word answer)

XIIKDAR21—5003-B

Turn Over

B-3-B

(2)

✓
3. What is triple fusion ?

4. Name *two* ODS.

Section-B

2 each

✓
5. Write briefly advantages of micro-propagation.

6. What is Biofortification ? Write its *two* advantages.

✓
7. What are Biopesticides ? Give some examples.

Or

Write some applications of tissue culture.

Section-C

3 each

✓
8. How does the pollen mother cell develop into mature pollen grains ?

Illustrate with the help of well labelled diagram.

✓
9. Define Succession. Differentiate between Primary Succession and Secondary Succession.

Or

✓
What is the difference between a leading strand and a lagging strand ?

10. What is GM crop ? What are potential hazards of GM crops ?

XIIKDAR21—5003—B

B-3-B

11. Write *four* major factors regulating the size of a population.
12. What is Genetic Code ? What are its characteristics ?

Or

Write the applications of tissue culture.

Section-D

5 each

13. What is a dihybrid cross ? State and explain Mendel's Law of Independent Assortment with the help of a dihybrid cross.

Or

DNA acts as a 'Genetic Material.' Justify the statement with the help of an experimental evidence. <https://www.jkboseonline.com>

14. Enlist some threats to Biodiversity leading to its loss.

Or

What are the causes and effects of Air Pollution ? Write some control measures for air pollution.