

B-3-C

Roll No.....

Total No. of Questions : 14]

[Total No. of Printed Pages : 3

XIIKDAR21

5003-C

BOTANY

(Biology)

Time : 1½ Hours]

[Maximum Marks : 35

Section-A

1 each

1. A dihybrid test cross ratio is :

(A) 9 : 3 : 3 : 1

(B) 1 : 1 : 1 : 1

(C) 9 : 7

(D) 9 : 6 : 1

(Choose one correct answer)

2. An unorganised and undifferentiated mass of parenchymatous cells produced in culture is called

(Give one word answer)

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Turn Over

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3. What is the other name of embryo sac ?
4. What is biomagnification ?

Section-B

2 each

5. Write briefly different modes of vegetative propagation in plants.
6. What is cellular totipotency ? <https://www.jkboseonline.com>
7. Differentiate between biopiracy and biopatent.

Or

Write a very short note sewage treatment.

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 ?

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(3)

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.

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.