



EXAM NO. ....

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

**HSEIRKN15**

**6418-X**

**BOTANY**

**(Biology)**

**Time : 1 ½ Hours]**

**[Maximum Marks: 35**

**(Long Answer Type Questions)**

**5 Each**

- 1 Define cross pollination. Name the contrivances that favour it and describe any two of them.

*Or*

Describe the process of double fertilization. What is its significance ?

2. What is multiple allelism ? Explain with the help of an example.

*Or*

Define genetic code Point out its characteristics.

**(Short Answer Type Questions)**

**3 Each**

3. Why did Mendel select garden pea for his experiments ?
- 4 Define tissue culture Name any *three* applications of tissue culture.

Turn Over

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5. Name the various interactions in a biotic community and describe any one of them.
6. Suggest any *three* measure for controlling pollution or our lakes

**(Very Short Answer Type Questions)**

7. The following very short answer type questions of 2 marks, each may be answered in a few words or few sentences or as may required.

(a) Point out the advantages of vegetative reproduction in plants

(Any two points)

(b) Define polyploid breeding. Name the chemical used in inducing polyploidy.

(c) Point out at any three advantages of tissue culture technique

(d) How is parasitism different from predation ?

**(Objective Type Questions)**

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8. Choose the correct/most appropriate answer and write in your answer-book :

(i) Define mortality rate.

(ii) Translation occurs in :

(a) Nucleus

(b) Cytoplasm

(c) Both (a) and (b) .

(d) None of these

(iii) Succession on a burnt forest represents .....

(iv) Define national park.

(v) The synthesis of organic molecules by green plants represents primary productivity. (False/True)

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