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**HSEIRKO14**

**1703 - Z**

**BOTANY**

[Maximum Marks - 35]

Time Allowed: 1½ Hours

(Fifteen Minutes Extra to read the Question Paper)

**(Long Answer Type Questions)**

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

**Or**

Define Transcription. Explain the process in detail.

Explain with the help of two examples, how pyramid of numbers and pyramid of biomass can look inverted.

**Or**

Why should we conserve Biodiversity?

**(Short Answer Type Questions)**

6. Female gametophyte in Angiosperms.

4. Differentiate between Continuous and Discontinuous variations. 3
5. What are Biofertilizers? Write the sources of biofertilizers. 3
6. Differentiate between Mutualism and Commensalism. Give example of each. 3

**(Very Short Answer Type Questions)**

7. The following very short answer type questions of two marks, each may be answered in a few words or few as may be required:
  - (a) What is Micropropagation? 2
  - (b) Define the terms: 2
    - (i) Somatic embryo
    - (ii) Somatic hybrids.
  - (c) List two adaptive features evolved in parasites enabling them to live successfully on their host.
  - (d) Distinguish between Primary productivity and Secondary productivity.

**(Objective Type Questions)**

- . Choose the correct/most appropriate answer and write it in your Answer-book
  - (i) Define Allogamy.

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- (ii) An anther having four microsporocytes shall produce pollen grains
- A. 24
  - B. 12
  - C. 8
  - D. 16
- (iii) The Term Genetics was first used by Benzeer. (True/False)
- (iv) Haploid culture technique was developed by .....
- (v) The term used for live microbial food supplement is .....