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SEAT No. :

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**[5315] - 37**

**F.Y. B.Sc.**

**SEED TECHNOLOGY (Vocational)**

**Morphology, Plant Breeding and Testing for Cultivar Genuineness  
(2013 Pattern) (Paper-I)**

*Time : 3 Hours]*

*[Max. Marks : 80*

*Instructions to the candidates:*

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*
- 3) *Draw neat labelled diagrams wherever necessary.*

**Q1)** Answer in two lines (Any eight):

**[8×2=16]**

- a) Enlist the parts of a typical flower.
- b) What is sexual reproduction in plants?
- c) Give an example of pepo type of fruit (Any two).
- d) What is plant breeding?
- e) Write any two merits of plant introduction.
- f) What is a seed?
- g) Enlist types of mutation.
- h) What is a phenol colour test?
- i) Define embryo culture.

**Q2)** Attempt any four of the following:

**[4×4=16]**

- a) Describe Groundnut Flower in detail.
- b) Explain any one method of artificial vegetative propagation.
- c) Write the contrivances in self pollination.
- d) Comment on evaluation activity in plant breeding.
- e) Give achievements of mutation breeding.

**P.T.O.**

**Q3)** Write notes on any four of the following:

**[4×4=16]**

- a) T.S. of typical anther.
- b) Development of microspore.
- c) Development of monocot embryo.
- d) Procedure for plant introduction.
- e) Grow out test.

**Q4)** Attempt any two of the following:

**[2×8=16]**

- a) Describe in detail, the process of double fertilization in angiosperms. Give its definition.
- b) Define hybridization. Write procedure of hybridization.
- c) Describe berry and capsule type of fruits with suitable examples and diagrams.

**Q5)** Write the diagnostic characters, floral formula and floral diagram of families Malvaceae and Poaceae. **[16]**

OR

What is pureline selection? Write procedure, advantages disadvantages and achievements of pure line selection.

