Total No. of Questions :5]

SEAT No. :

P410

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F.Y.B.Sc. (Vocational)
SEED TECHNOLOGY
Seed Physiology and Seed Production
(2013 Pattern) (Paper - II)

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 labeled diagrams wherever necessary.***

Q1) Answer in two lines (Any eight): **[8×2=16]**

a) Define seed dormancy.

b) What is seed deterioration?

c) Enlist different methods of irrigation.

d) Define seed viability.

e) What are synthetic seeds?

f) Enlist abiotic causes of plant diseases.

g) Define genetic purity of seed.

h) What are foundation seeds?

i) Comment on roughing.

Q2) Attempt any FOUR of the following: **[4×4=16]**

a) Describe seed structure.

b) Explain biochemical changes during seed germination.

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c) Describe various factors affecting seed dormancy.

d) Comment on land requirement and cultural practices in seed production.

e) Explain different methods of sowing.

Q3) Write notes on any four of the following: **[4×4=16]**

a) Seed storage condition.

b) Seed pelleting.

c) National seed corporation.

d) Nursery beds.

e) Quality of irrigation water.

Q4) Attempt any TWO of the following: **[2×8=16]**

a) Comment on short term and long term storage.

b) Give an account of production of artificial seeds.

c) Describe various steps involved in maintenance of genetic purity.

Q5) Define seed vigour. Explain different factors affecting seed vigour. Add a note on importance of seed vigour. **[16]**

OR

Give an account of causal organism, symptom, disease cycle and control measures for early blight of tomato.