

INSTRUCTION TO CANDIDATES

ANSWER QUESTION ONE (1) AND ANY THREE OTHER QUESTIONS

COMPULSORY QUESTION

Give a detailed outline of a laboratory experiment that you conducted in order to prove that a pure seed should have a **viable embryo**. [25 marks]

OPTIONAL QUESTIONS  
ANSWER ANY THREE QUESTIONS

Seed producing companies have argued that it is not worth investing money into research on open pollinated varieties (OPV) maize but instead channel resources to hybrid maize production. In your opinion are the seed companies justified and why? [10 marks]

Give a brief outline of the tools and techniques used in seed sampling at the farm level to obtain primary samples and at the Seed Testing Station to obtain working samples. [15 marks]

Define the following terms as they are used in Seed Science and Technology: (i) distinctiveness, (ii) homogeneous (iii) container, (iv) seed conditioning, and (v) certification. [10 marks]

Write short notes on the following aspects; (i) Seed treatment, (ii) Seed Packaging materials, and (iii) Seed storage conditions. [15 marks]

For a named crop that you have studied in detail, outline the steps in the seed certification process giving due consideration to land requirements, field requirements and laboratory requirements. [25 marks]

Give a detailed outline of the role of Seed Security Networks (SSNs) in ensuring seed security in regional economic blocs such as the Southern Africa Development Community (SADC) and the East African Community (EAC). [25 marks]

With reference to specific examples, outline the factors that contributed to the development of high standards in the Zimbabwean seed industry. [25 marks]

End of Examination Paper





