

**COMBINED COMPETITIVE EXAMINATION (MAIN)**

**AGRICULTURE**

**Paper—II**

**Time : 3 hours**

**Full Marks : 200**

**Note :** (1) *The figures in the right-hand margin indicate full marks for the questions.*

(2) *Attempt **five** questions in all.*

(3) *Question No. 1 is compulsory.*

**1. Answer any ten of the following :** **4×10=40**

- (a) What is inheritance? Enlist the reasons of Mendel's success.
- (b) State the relationship between center of origin and biodiversity of species.
- (c) What is plant breeding? Write its scope and importance.
- (d) Differentiate between self-incapability and male sterility.
- (e) Explain seed health testing and its importance in quality seed production.
- (f) What do you mean by transpiration, osmosis and diffusion?
- (g) What are plant hormones and their different types?
- (h) What is pesticide formulation? Enumerate the salient features of solid formulations.
- (i) Define parasite predator, disease and symptom.
- (j) Enlist the sources of infestation of stored grain pest.
- (k) What is plant quarantine in insect pest management?
- (l) Write the objective of 'National Food Security Mission' and its major components.

