

# AGRICULTURAL SCIENCE

(Two hours)

*Answers to this Paper must be written on the paper provided separately.*

*You will not be allowed to write during the first 15 minutes.*

*This time is to be spent in reading the question paper.*

*The time given at the head of this Paper is the time allowed for writing the answers.*

*Attempt all questions from Section A and any four questions from Section B.*

*The intended marks for questions or parts of questions are given in brackets [ ].*

## SECTION - A (40 MARKS)

*(Attempt all questions from this Section)*

### Question 1.

- (a) Why is India considered to be an agricultural based economy? [2]
- (b) Name four land reform programmes introduced in India. [2]
- (c) State four elements of the Green Revolution in the country. [2]
- (d) Give two reasons for the need of agricultural credit by farmers. [2]
- (e) Name two conditions when crop insurances would become relevant to the farm sector. [2]
- (f) Name two crops each that are suitable for mixed cropping with wheat and maize under rainfed conditions. [2]
- (g) (i) What is the ideal sowing time for wheat in North India?  
(ii) What is the ideal planting depth of wheat seed? [2]
- (h) (i) What are the critical stages of irrigation for the wheat crop?  
(ii) At what stage water should be supplied, if available only for one irrigation under rainfed situations? [2]
- (i) What do you understand by 'dry' and 'wet' systems of rice culture? [2]
- (j) Why do we recommend draining of water from the paddy fields at the grain ripening stage? [2]
- (k) How is the earthing-up operation helpful in the production of maize? [2]
- (l) Cite examples of the food chain, involving producers, herbivores and carnivores in forest and aquatic ecosystems. [2]
- (m) What is the 10 percent law and who formulated it? [2]

# Grade 10 Agricultural Science Paper 1

**L Cohen**



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