

# COMBINED COMPETITIVE EXAMINATION (MAIN)

## BOTANY

### 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) Give the differences between autosomes and allosomes.
- (b) Differentiate between PS I and PS II.
- (c) "Water is a universal solvent." Explain.
- (d) Explain hydrogen bonding in water.
- (e) What are adhesive and cohesive forces?
- (f) Explain ascent of sap.
- (g) Differentiate between transcription and translation.
- (h) Differentiate between spontaneous and induced mutations.
- (i) Differentiate between Binomial distribution and Poisson distribution.
- (j) Differentiate between transpiration and guttation.
- (k) Differentiate between Northern and Southern hybridizations.
- (l) Differentiate between phototropism and photoperiodism.

