

COMBINED COMPETITIVE EXAMINATION (MAIN)

FORESTRY

Paper—I

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 quarter-girth formula?
- (b) Why are herbaria and arboreta pre-requisite for dendrology?
- (c) Explain the role of fire in regeneration and seedling establishment of *Shorea robusta*.
- (d) What are the selection criteria for introduction of trees for wasteland afforestation?
- (e) Explain the relationship between CAI and MAI in a forest stand.
- (f) What are the different regeneration categories that are observed and recorded during *Tectona grandis* regeneration survey?
- (g) How do trees help in conserving soil and water?
- (h) What are the major defects found in wood?
- (i) How is remote sensing advantageous as compared to ground survey?
- (j) How is damage due to teak defoliator and stem borer managed in plantation?
- (k) Explain the factors which decide the choice of enumeration in forests.
- (l) What is the importance of estimating form factor of a tree?

