

SH-I/BS/1103/19

B.Sc. 1st Semester (Honours) Examination, 2019-20

FORESTRY

Course ID : BS1103

Course Code : SH-BS-1103

Course Title : Seed Technology and Nursery Management

Time: 2 Hours

Full Marks: 50

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

- 1.** Write a definition of *any ten* of the following questions: 1×10=10
- (a) Seed
 - (b) Vegetative propagation
 - (c) Germinative energy
 - (d) Clone
 - (e) Viability
 - (f) Biological dormancy brake
 - (g) Define Orthodox seeds with example
 - (h) Seed dormancy
 - (i) Transplanting
 - (j) Seed production area
 - (k) Dormancy
 - (l) Scarification
 - (m) Temporary nursery
 - (n) Natural forest
 - (o) Soil pH
- 2.** Answer *any ten* of the following questions: 2×10=20
- (a) Explain Tetrazolium test.
 - (b) Types of Seed dispersal
 - (c) Hoeing Fruit and seed handling.
 - (d) Demerits of containerized nursery
 - (e) Write down 2 important nursery pests and diseases.
 - (f) Advantages of Sunken bed

- (g) What are the purpose of seed storage?
- (h) Listing of different treatments for breaking exogenous dormancy.
- (i) Why site selection is important for forest permanent nursery establishment?
- (j) Advantages of Clonal seed orchad
- (k) Importance of seed in forestry
- (l) Disadvantages of collection of immature forest seeds
- (m) Give an example of four recalcitrant seed (Botanical Name).
- (n) Find out the requirement of land for the nursery for planting Teak in 15 ha at the spacing of 5m X 2m. The size of polythene bag used is 15cm X 25cm. Where, 15cm X 25cm this size poly bag accommodated in a nursery bed 1250 (numbers).
- (o) What are the purposes to control of moisture level for forest seed?

3. Write down in brief *any four* of the following:

5×4=20

- (a) Define seed dormancy and its types. Explain treatments for dormancy breaking.
 - (b) What are the importance of seed in present day forestry?
 - (c) Draw a Layout of nursery with well label and define all the component.
 - (d) Elaborate seed Development with diagram.
 - (e) Advantages and Disadvantages of containerised nursery technique
 - (f) Scope of Forest nursery
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