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H-7423

M.Sc. (Semester-II) Examination, 2022

FARM FORESTRY

[(Farm Forestry-I (Agroforestry)]

Time Allowed : Three Hours

Maximum Marks : 70

Minimum Passing Marks : 25

Note : Question paper is divided into **four** sections. Attempt questions of all four sections as per direction. Distribution of marks is given in each section.

Section-A

(Objective Type Questions)

Note : Attempt **any ten** questions. Each question carries **1** mark.

[10x1=10]

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(1)

[P.T.O.]

1. (A) Fill in the blanks :
- (i) In India, the first teak plantation was established at -----.
 - (ii) The ICRAF was established during the year -----.
 - (iii) The word 'social forestry' was coined by -----.
 - (iv) Vermi composting is done by -----.
 - (v) Example of Biofuel plant is -----.
- (B) Multiple choice questions :
- (vi) The Agroforestry system which satisfies the basic needs of farmers and is self managed by them :
 - (a) Industrial
 - (b) Intermediate
 - (c) Commercial
 - (d) Subsistence
 - (vii) Macro design and Diagnostic survey in Agroforestry is aimed at :
 - (a) Country level
 - (b) Regional level
 - (c) State level
 - (d) Local level

- (viii) Which among the following are NFTs ?
- (a) Cassia Siamea
 - (b) *Acacia nilotica*
 - (c) *Casuarina equisetifolia*
 - (d) All of the above
- (ix) Which among the following factors govern the choice of species in Agroforestry ?
- (a) Site factor
 - (b) Purpose of plantation
 - (c) Agroforestry system
 - (d) All of these
- (x) ----- seeds cannot survive during below a relatively high moisture content (20-50%) and which cannot be stored for long period.
- (a) Orthodox
 - (b) Recalcitrant
 - (c) Leguminous
 - (d) None of these

- (xi) When different crops occupy the land together as coffee under shade tree and pasture under trees the Agroforestry system is classified as :
- (a) Concomitant
 - (b) Coincident
 - (c) Intermittent
 - (d) Interpolated

Section-B

(Very Short Answer Type Questions)

Note : Attempt **any five** questions. Each question carries **2** marks. (Word limit 25-30 words only) [5x2=10]

2. (i) Farm Forestry
- (ii) Api cropping
- (iii) Apiculture
- (iv) Pollarding
- (v) Allelopathy
- (vi) Aerial Seeding

Section-C

(Short Answer Type Questions)

Note : Attempt **any five** questions. Each question carries 4 marks (Word limit **250** words) [5x4=20]

3. (i) NFT
- (ii) Wind breaks and shelter belts
- (iii) Seed Storage
- (iv) Choice of species
- (v) Shifting cultivation
- (vi) Biodiversity conservation

Section-D

(Essay Type Questions)

Note : Attempt **any three** questions. Each question carries **10** marks (more than **500** words). [3x10=30]

4. (i) Define wasteland and describe different types of wastelands giving management practices.

- (ii) Write a detailed note on land capability classification and land use.
- (iii) What do you understand by 'Diagnosis and Design' in Agroforestry ? Explain.
- (iv) Write notes on the following :
 - (a) Interaction of crops
 - (b) Classification of Agroforestry system

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