

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 5798

J

Unique Paper Code : 2182011202

Name of the Paper : Land and Soil: Conservation and Management

Name of the Course : **B.Sc. (H) Environmental Science – Core**

Semester : II

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any **four** questions out of the **six** provided.
3. **All** questions carry equal marks.

1. Write definition of the following :–

(2.5×6)

- (i) Wind break
- (ii) Mulching
- (iii) Economic valuation of land
- (iv) Hollard
- (v) Soil alkalinity
- (vi) Soil degradation

2. Write short notes the following :–

(2.5×6)

- (i) Soil profile
- (ii) Water holding capacity of soil
- (iii) Physical properties of soil



P.T.O.

(iv) Nutrient Depletion

(v) Soil sodicity

(vi) Soil Colloids

3. Write explanatory note on the following : (5×3)

(i) Role of databases in Land use planning

(ii) Restoration of soil fertility

(iii) Land use planning

4. (a) What do you mean by Sustainable land management? How do sustainable land management practices effect ecosystem services and biodiversity. (8)

(b) Explain how population pressure and socio-economic factors are responsible for responsible for land degradation. (7)

5. (a) Discuss the ways by which climate induced desertification can be reduced or reversed. (7)

(b) Describe the process of soil formation. Also, classify the soils as per their properties. (8)

6. (a) How mining and mineral extraction is leading to the pollution of soil. Discuss. Suggest some of the ways to curb the same. (8)

(b) Define land degradation assessment. Explain land degradation assessment can help in land conservation. (7)

