2/8/23(MOS)

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(b) Describe the principles of watershed management.

(7)

- (a) What is sustainable land management? How do 6. sustainable land management practices affect ecosystem services and biodiversity? (8)
 - (b) Discuss different types of soil degradation. Examine the impact of soil degradation on agriculture and food security. (7)

[This question paper contains 4 printed pages.]

Your	Roll	No

Fall NOW DE

Sr. No. of Question Paper	:	1218 F
Unique Paper Code	:	2182011202
Name of the Paper	:	Land and Soil: Conservation and Management ollege Lib
Name of the Course	:	B.Sc. Hons. Environmental Sciences - Core
Semester	•	II (
Duration : 2 Hours		Maximum Marks : 60

Instructions for Candidates

- Write your Roll No. on the top immediately on receipt 1. of this question paper.
- 2. Answer any four questions. All Questions carry equal marks.

(a) Define the following (Any five) : $(2 \times 5 = 10)$ 1.

- (i) Mulching
- (ii) Wind breaks

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- (iii) Soil texture
- (iv) Hollard
- (v) Micronutrients
- (vi) Land use
- (b) Fill in the blanks : $(1 \times 5 = 5)$
 - (i) _____ leads to sheet erosion on hilly slopes.
 - (ii) _____ layer of the soil profile is known as the zone of accumulation.
 - (iii) ______ is the placing of trees and shrubs into crop and animal farming systems to create environmental benefits.
 - (iv) _____ is the best type of soil that is used to plant seeds.
 - (v) The scientific study of soil in its natural environment is called _____.

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- 2. Write short notes on the following : $(2\frac{1}{2}\times4=15)$
 - (a) Soil profile
 - (b) Land salinization
 - (c) Water holding capacity of soil
 - (d) Shifting cultivation
- 3. Write explanatory notes on the following : $(5 \times 3 = 15)$
 - (a) Principles of sustainable land management
 - (b) Role of databases in land use planning
 - (c) Pedogenesis
- 4. (a) What is land degradation assessment? Discuss how can land degradation assessment help in conservation. (8)
 - (b) How can climate change-induced desertificationbe reduced or reversed? (7)
- 5. (a) What is a watershed? Explain the concept of watershed management. (8)

P.T.O.