

4. Land and Soil Conservation

P. Pages : 1

Time : Three Hours



GUG/W/18/11269

Max. Marks : 80

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Illustrate the answer with suitable diagrams and examples.

1. Explain land as a resource in detail. What is the ecological and economic importance of soil? **16**

OR

- a) What are the impacts of soil loss and soil degradation on agriculture? **8**
- b) Describe the need for soil conservation. **8**

2. Write in detail about soil formation with its classification and physical properties. **16**

OR

- a) Explain about soil resistance and resilience in detail. **8**
- b) Discuss the nature and types of soil erosion. **8**

3. What are the biological and physical phenomena in land degradation? Explain drivers of land use in major geographic zones. **16**

OR

- a) Explain the human population pressure on land use. **8**
- b) Describe the reasons for loss of habitat and biodiversity due to land degradation. **8**

4. Discuss about the planning of sustainable land use and the role of database and data analysis in land use management. **16**

OR

- a) Describe about the legal institutional and sociological factors in controlling land degradation. **8**
- b) Write about integrating land degradation assessment into conservation. **8**

5. **4x4 =16**
- a) Describe the causes for soil degradation.
 - b) What is soil acidity and alkalinity?
 - c) Discuss visual indications of land degradation.
 - d) Write about land texture and land policy.
