

ALLAMA IQBAL OPEN UNIVERSITY, ISLAMABAD
(Department of Agricultural Sciences)

WARNING

1. **PLAGIARISM OR HIRING OF GHOST WRITER(S) FOR SOLVING THE ASSIGNMENT(S) WILL DEBAR THE STUDENT FROM AWARD OF DEGREE/CERTIFICATE, IF FOUND AT ANY STAGE.**
2. **SUBMITTING ASSIGNMENTS BORROWED OR STOLEN FROM OTHER(S) AS ONE'S OWN WILL BE PENALIZED AS DEFINED IN "AIOU PLAGIARISM POLICY".**

Course: Soil Conservation and Water Shed Management (2511)

Level: M.Sc. Forestry Extension

Semester: Autumn, 2013

Total Marks: 100

Pass Marks: 40

ASSIGNMENT No. 1

(Units: 1–5)

Note: All questions are compulsory and carry equal marks.

- Q. 1 Define the term precipitation. How many forms of precipitation are there? How would you be able to measure precipitation? (20)
- Q. 2 Enlist various types of water erosion. Discuss the mechanism of raindrop and stream channel erosion in detail. (20)
- Q. 3 Discuss briefly about the common practices required controlling erosion by water from cultivated farm lands. (20)
- Q. 4 Explain the chief characteristics of wind and soil movement caused by wind erosion. Also discuss three principle methods of reducing surface wind velocities with your own words. (20)
- Q. 5 What do you understand by the term terracing? Discuss its main functions and classification. Explain also the purpose of graded or channel type terrace in detail. (20)

ASSIGNMENT No. 2

(Units: 6–9)

Total Marks: 100

Pass Marks: 40

Note: All questions are compulsory and carry equal marks.

- Q. 1 Enlist factors influencing erosion. Discuss also the mechanism of any two of them in detail. (20)

- Q.2 Define the phenomenon of soil loss tolerance. Also discuss about various approaches to soil conservation. **(20)**
- Q.3 Discusses the followings;
- a) The hydrological cycle **(10)**
 - b) Watersheds and streams **(10)**
- Q.4 How would you explain the impacts of watershed use in forest management with you own words. **(20)**
- Q.5 Discuss the potential importance of placing forest trees on small scale for soil and water conservation. **(20)**

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