



KERALA AGRICULTURAL UNIVERSITY
B. Sc. (Hons.) Ag 2017 Admission
II Semester Final Examination-July-2018

Engg.1201

Soil and water conservation Engineering (1+1)

Marks: 50
Time: 2 hours
(10x1=10)

I Match the Following

A	B
1 Grassed waterways	a Saltation
2 Watershed approach	b Strip cropping
3 Manning's formula	c Peak runoff rate
4 Bench terrace	d Mole plough
5 Wind erosion	e Mean precipitation
6 Water erosion control	f Drainage Channel
7 Rational method	g Seepage flow
8 Sub-surface drainage	h Flow rate
9 USLE	i Manageable hydrological unit
10 Weir	j Hilly areas

II Write Short notes on ANY FIVE of the following (5x2=10)

- 1 List the Advantages of strip cropping.
- 2 Mention the various factors affecting soil erosion.
- 3 Mention the various components of dugout farm pond along with their functions.
- 4 Explain stream bank erosion.
- 5 Describe the methods gully control structures.
- 6 Describe drop impact on soil erosion
- 7 Define surface creep and mention the method to control it.

III Answer ANY FIVE of the following (5x4=20)

- 1 Describe the role of contour bunds in soil and water conservation
- 2 Write short note on Fertigation and its equipments.
- 3 Write the difference between inward and out ward sloping bench terraces.
- 4 Describe different types of wind erosion.
- 5 Write the methods for conditioning of top soil against wind erosion.
- 6 Write short notes on shelter belts with their advantages.
- 7 Discuss the contour trenching methods suitable for low rainfall areas.

IV Write an essay on ANY ONE of the following (1x10=10)

- 1 The agronomical measure in soil and water conservation.
- 2 Explain the method of irrigation and in which describe drip and sprinkler in detail. .
