



KERALA AGRICULTURAL UNIVERSITY
B. Sc. (Hons.) Ag. 2018 admission
II Semester Final Examination-July-2019

Agg.1201

Soil and Water Conservation Engineering (1+1)

Marks: 50
Time: 2 hours

I Fill in the blanks (10x1=10)

- 1 Advanced stage of rill erosion is called as.....
- 2 Erosivity refers to the ability of..... to cause erosion.
- 3 Level bench terraces are adopted inrainfall condition.
- 4 The system of growing more than one crop together on the same land is called as..... cropping.
- 5 The line joining the points of equal elevation on the surface of the earth is known as.....
- 6 The channels, which are obliterated by tillage operations, are called as.....
- 7 Current meter is used to measure..... in an open channel.
- 8 The application of fertilizer through irrigation is known as.....
- 9 Operation of filling the suction and pump case is calling.....
- 10 Apump operates by the injection of compressed air directly into the water inside a educator pipe at a point below the water level in the well.

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

- 1 Strip cropping.
- 2 Catchment.
- 3 Duty of water.
- 4 Graded bund.
- 5 Different fertigation devices.
- 6 Water measuring devices.
- 7 Limitations of centrifugal pumps.

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

- 1 Explain estimation of soil erosion.
- 2 Mechanical measures of soil erosion.
- 3 Explain different stages of gully erosion.
- 4 Explain farm pond and percolation pond.
- 5 What are the principles of soil conservation?
- 6 Explain the operation of centrifugal pump.
- 7 Describe the different techniques of water harvesting.

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

- 1 Explain in detail about the selection of irrigation pumps.
- 2 Write an essay on planning, design and layout of drip irrigation system.
