

KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Forestry 2014 & 2015 Admissions

11th Semester Final Theory Re- Examination- March-2017

Cat. No: Safo.1204.

Marks: 50.00

Title: Principles of Hydrology, Soil and Water Conservation (2+1)

Time: 2 hours

I Choose the correct Answer/Define the following

(10x1=10)

1. The branch of science dealing with the water is known as -----
2. The water bearing strata found beneath the soil surface is known as -----
3. The level at which water stands in a well after pumping starts is known as -----
4. The contour bunds are adopted in areas where the rainfall is -----
5. The bench terraces are gradually developed over a year by natural leveling in ----- type of bench terrace.
6. Bench terraces are constructed on lands with ----- slope
7. The ratio between the well yield and the drawn is -----
8. Inward type bench terraces are constructed in the areas of -----
9. The artesian well derive its water from -----
10. Contour lines are perpendicular to the -----

II Write short notes on any FIVE

(5x2=10)

1. Water harvesting structures.
2. Methods of leveling.
3. Raingauges and its types.
4. Aquifers and its types.
5. Check dams
6. Sprinkler irrigation system
7. Factors affecting Runoff

III Write short answers on any FIVE

(5x4=20)

1. Afforestation and forest management in wasteland areas.
2. Wind breaks and Shelter belts.
3. Recharging of water wells and springs.
4. Explain factors affecting erosion by water.
5. Describe different methods of sub-surface drainage.
6. What is consumptive use? Explain different methods of consumptive use measurement.
7. Flood and control measures.

IV Write essay on any ONE

(1x10=10)

1. Write in detail about soil erosion, factors affecting soil erosion and methods to control soil erosion.
2. Discuss briefly about water conveyance, water application, water storage, water distribution and water use efficiency.
