



**KERALA AGRICULTURAL UNIVERSITY**  
**B.Sc. (Hons.) Ag.**  
**Re-examination - July 2019**  
**2015 and previous admission**

Agro.1203

**Irrigation and Water Management (2+1)**

**Marks: 50**  
**Time: 2 hours**

**I Fill in the blanks** **(10x1=10)**

- 1 Border strip method of irrigation is followed in..... crop
- 2 First stage of erosion is.....
- 3 Most critical stage of water for wheat is.....
- 4 During ..... type of water absorption, water is drawn in roots by negative pressure in conducting tissues created by transpiration in plants.
- 5 A reference book with author (s) for this course.....

**State True or False**

- 6 In India First Irrigation commission was appointed in the year 1901.
- 7 Rate of entry of water into the soil per unit time is called percolation rate.
- 8 Hedge row intercropping is the other name of alley cropping.
- 9 Rainfall erosivity is an index based on kinetic energy of the rain .
- 10 Contour bunding is recommended for areas with more than 600 mm annual rainfall.

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

- 1 Irrigation requirement.
- 2 Alternate furrow irrigation.
- 3 Field water use efficiency.
- 4 Wind break.
- 5 Crop co efficient.
- 6 Farm ponds.
- 7 Strip cropping.

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

- 1 Importance of irrigation management.
- 2 Effect of excess water on crop growth.
- 3 Water management in coconut.
- 4 Criteria of quality of irrigation water.
- 5 Universal soil loss equation.
- 6 Objectives and characteristics of watershed.
- 7 Water harvesting.

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

- 1 List the methods of irrigation and write an essay on drip irrigation.
- 2 List the soil and water conservation practices in dry land agriculture and discuss in detail about agronomic measures of soil and water conservation.

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