

KERALA AGRICULTURAL UNIVERSITY

B.Tech (Agrl.Engg) 2010 Admission
VIth Semester Final Examination- June -2013

Cat. No: Iden.3207

Title: Ground water, Wells and Pumps (2+1)

Marks: 80
Time: 3 hours

I. Fill up the blanks

1. ----- aquifer is known as free aquifer.
2. Average annual rainfall of India is ----- cm
3. ----- is the process of removing fine material from the aquifer surrounding the strainer pipe
4. Persian wheel lifts water up to ----- metres
5. ----- is the theoretical horse power required for pumping

Define the following

6. Safe yield of a well
7. Specific retention
8. Aquiclude
9. Static water level
10. Permeability

(10x1=10)

II Answer any ten of the following

1. What are the factors to be considered before selecting site for a well.
2. Write short note on confined aquifer
3. In a certain place, the average thickness of a confined aquifer is 30 m and extends over an area of 800 km². The piezometric surface fluctuates annually from 19m to 9m above the top of the aquifer. Assuming a storage coefficient of 0.0008 what ground water storage can be expected annually.
4. Write short note on well shrouding
5. Write short note on well screen losses