Question Bank

Q1/ What is the principles of irrigation? And When plant need to irrigation?

Q2/ Enumerate the function of Irrigation.

Q3/ what are the advantage and disadvantages of irrigation system?

Q4 / A soil is sampled by a core measuring 7.4 cm in diameter and 8 cm height. Calculate gravimetric and volumetric water contents and dry bulk densities using the following data:

1. Weight of empty core = 120 g

2. Weight of core + wet soil = 256 g

3. Weight of core + oven dry (105^0C) soil = 374 g

Q5/ write the main types of weirs.

Q6/ Calculate the discharge by (m3/s) in a channel when we use a trapezoidal weir if you know the width of the contracted notch below is equal to 0.4 m and in a surface is 0.6 m and the head of water over the weir is 32 cm.

Q7/ what is the water Discharge?

Q8/ Calculator the discharge of a plastic pipe, 18 cm in diameter. The pipe is 125 meters in length, and the difference in height between the beginning and endpoints of the pipe is equal to 80 cm.

Q9/ what is the each phrase below? Write only 5
(irrigation, sprinkler irrigation, sub-irrigation, emitter clogging, Emitters, drip irrigation)
Q10/ Write only 5 advantages of drip irrigation.

Q11/ what are the components of the drip and centre-pivot irrigation system?

Q12/ what the information we must be get before design any sprinkler irrigation?

Q13/ Calculate the area of the field and the times need to continue one shift of the center pivot if the velocity of this is equal to 95m/hr if you know the length of the towers is equal to 203 meters and the shout distance of the gun equal to 30 meters.

Q14/ what is the determination of the effective rainfall?

Q15/ Calculate the volume of water we need to add for the squash plant at Juley for 3 days when the average temperature is equal to 35°C and atmospheric pressure is 9.9 Also, Kc= 0.89 if you know the diameter of wetting is equal 60 cm.

Q16/ The highly irrigation Efficiency dependent some points, write all of them.

Q17/ Calculate the uniformity distribution for the drip irrigation if you have the below data:

 57, 53, 64, 47, 62, 48, 50, 61, 57, 61, 58, 57, 55, 53, 51 and 50.

Q18/ What are the factor affecting of head loss?

Q19/ A pipe of 100min m diameter with a discharge of 50 $m3$/hr with a length of 110 m made of plastic, calculate the head loss by Haezn-Williams and Scobey equation.

Q20/ what are the advantage and disadvantages of irrigation system?

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