

Hemchandracharya North Gujarat University
Community College
Advance Diploma in Agriculture and Soil Sciences
Semester End Examination - Semester III
Subject: AS-104 (Irrigation of water management)

Time: 2 hrs

Date: 4/01/2016

Marks: 40

Q-1. Select the appropriate answer from the following. (10*1=10)

1. Critical stage of irrigation in wheat.....
a. seedling b. Flowering c. Harvesting d. None of them
2. Surface water in north Gujarat:
a. 4.1 b. 38.0 c. 1.2 d. 6.1
3. Component of drip.....
a. sprinkler b. Drippers c. valve d. All of them
4. Fertilizer given in irrigation known as.....
a. Drainage b. Sub-Surface irrigation c. Surface irrigation d. Fertigation
5. Which one is irrigation by crop appearance :
a. Transpiration b. Respiration c. leaf and shoot wilting d. Photosynthesis
6. Value of maize for Transpiration ratio:
a. 200-1000 b. 800-900 c. 250-1500 d. 200-1500
7. Full name of TDR:
a. Time display rotary b. Thermo domain reflector
c. Time domain reflectometry d. Thermo sensitive roter
8. Neutral pH of soil.....
a. 1.5 b. 2.5 c. 6.5 d. 7.0
9. >0.25 dS/m is indicate:
a. Very high salinity water b. Medium salinity water c. Low salinity water
d. High salinity water
10. Above 4.0 ppm boron content indicate:
a. Semi sensitive crops b. Sensitive crops c. Tolerant crops d. None of them

Q-2. Answer any 4 questions. Each question carries 05 marks. (4*5=20)

1. Define/Explain the following
a. sprinkler b. Seepage c. Bio drainage d. Water management
e. Bulk density
2. Classification of irrigation.
3. What is Bio-drainage? Write down advantage and disadvantage.
4. Enlist scheduling approach of irrigation.
5. Different between Drip and Sprinkler irrigation.

Q-3. Answer any 1 questions. Each question carries 10 marks. (1*10=10)

1. Enlist type of drainage and explain any one.
2. Write down component of drip irrigation and list out its advantage and disadvantage.