

Pramukh Swami Science and H.D. Patel Arts College, Kadi
CC- Agriculture and Soil Sciences
Internal Examination Semester I

Subject: AS-104 (Irrigation of water management)

Time: 2 hrs

Date: 5/11/2015

Marks: 40

Q-1. Select the appropriate answer from the following.

(10*1=10)

1. Average annual rainfall in India is
a. 328 mm b. 1190 mm c. 400 mm d. 392 mm
2. Surface water in north Gujarat:
a. 4.1 b. 38.0 c. 1.2 d. 6.1
3. Total ground water in Gujarat:
a. 54.5 b. 16.88 c. 16.0 d. 38.5
4. Ultimate irrigation potential of Gujarat:
a. 64.88 b. 39.84 c. 37.63 d. 124.0
5. Which one is irrigation by crop appearance :
a. Transpiration b. Respiration c. leaf and shoot wilting d. Photosynthesis
6. Value of wheat 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. How much India's soil affected by poor quality of water?
a. 1.5 b. 2.5 c. 1.9 d. 3.0
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. 2.0 to 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. Drainage b. Seepage c. Irrigation d. Water management
e. Bulk density
2. Define Irrigation and Explain its objective.
3. Enlist water resources and explain one.
4. Explain Depth-Interval-Yield approach.
5. Enlist soil moisture deficit approach limitation.

Q-3. Answer any 1 questions. Each question carries 10 marks.

(1*10=10)

1. Enlist methods for scheduling of irrigation water and explain it. (Any two)
2. Enlist problems of poor quality water.