

Unit 4 - Week 2

Course outline

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Week 2

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- Lecture 7 : Evapotranspiration
- Lecture 8 : Crop water requirement
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Assignment 2

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-08-21, 23:59 IST.

1) Movement and filtering of water from porous material is called as _____ 1 point

- a. Infiltration
- b. Transpiration
- c. Precipitation
- d. Percolation

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
d.

2) Evaporation from free water surface is measured by 1 point

- a. Lysimeters
- b. USWB Class A pans
- c. Ring infiltrometers
- d. Anemometers

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

3) If the intensity of rainfall is more than the infiltration capacity of soil, then the infiltration rate will be 1 point

- a. More than infiltration capacity
- b. Equal to rate of rainfall
- c. Equal to infiltration capacity
- d. More than rate of rainfall

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
c.

4) Under ideal crop growth condition, crop water requirement represents the 1 point

- a. Evapotranspiration
- b. Transpiration
- c. Evaporation
- d. None of the above

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
a.

5) Estimation of evapotranspiration using Blaney-Criddle method has been calibrated for: 1 point

- a. Daily calculations
- b. Hourly calculations
- c. Monthly calculations
- d. Seasonal calculations

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
c.

6) The initial rate of infiltration of a watershed is estimated as 2.1 in/hr, the final capacity is 0.2 in/hr, and the time constant, k, is 0.4 per hr. Use Horton's Equation to find the infiltration capacity (in/hr) at t = 2 hr. 1 point

- a. 0-1
- b. 1-2
- c. 2-3
- d. 3-4

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

7) A Class-A pan was setup adjacent to a lake. The depth of water in the Pan at beginning was 110 mm. In that week, a rainfall of 100 mm was observed. If the depth of water at the end of the week was 190 mm, the Pan evaporation (mm) and lake evaporation (mm) of the week are (Assume Pan coefficient as 0.62) 1 point

- a. 210 and 20
- b. 20 and 12.4
- c. 100 and 142
- d. 30 and 21

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

8) Potato is irrigated with water having an electrical conductivity of 1.2 dsm^{-1} . The application efficiency is 60%. The seasonal crop evapotranspiration and seasonal rainfall are 400 mm and 125 mm, respectively. Average soil salinity tolerated by the crop is 1.6 dsm^{-1} . The seasonal irrigation requirement is (in mm) 1 point

- a. 400.00
- b. 500.24
- c. 372.86
- d. 539.21

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
d.

9) If the seasonal irrigation water for tomatoes is 720 mm and the net depth of irrigation in loamy soil is 40 mm, the gross depth of water application and the irrigation interval of tomatoes for 4 months growing period are,. 1 point

- a. 18 mm and 8-9 days
- b. 18 mm and 6-7 days
- c. 17 mm and 10-11 days
- d. None of the above

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

10) A Persian wheel discharges at the rate of 11 m^3 per hour and works for 8 h each day. Estimate the irrigation depth (mm) if the irrigation interval and the commanded area are 15 days and 1.65 ha. 1 point

- a. 80
- b. 50
- c. 100
- d. 30

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
a.