

Unit 14 - Week 12

Course outline

How to access the portal

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- Lecture 56 : Case study of drainage system

- Lecture 57 : Drainage Model

- Lecture 58 : Irrigation Efficiency

- Lecture 59 : Irrigation Economics

- Lecture 60 : Irrigation model

- Lecture Material

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- Feedback for Week 12

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Assignment 12

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

Due on 2019-10-23, 23:59 IST.

- 1) Position and fluctuation of water table is measured by ____ 1 point
- a. Piezometer
b. Tensiometer
c. Access-tube
d. None
- a.
 b.
 c.
 d.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
a.
- 2) Which of the following is not assumed in EnDrain software? ____ 1 point
- a. Steady-state fluxes
b. The horizontal component of the flow is constant in a vertical cross-section
c. Soil's hydraulic conductivity is constant from place to place
d. Un-steady state fluxes
- a.
 b.
 c.
 d.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
d.
- 3) The Christiansen's Uniformity Coefficient (C_u) is commonly used to describe uniformity in ____ 1 point
- a. Surface irrigation
b. Stationary sprinkler irrigation
c. Both a and b
d. None of the above
- a.
 b.
 c.
 d.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
b.
- 4) The following equation used to compute the future value of an asset is ____ 1 point
- a. $P = F(1+i)^n$
b. $F = P(1+i)$
c. $F = P(1+i)^n$
d. $P = F(1+i)$
- a.
 b.
 c.
 d.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
c.
- 5) CROPWAT software calculates the ____ 1 point
- a. Crop water requirements
b. Irrigation schedules
c. Both a and b
d. None
- a.
 b.
 c.
 d.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
c.
- 6) The equation used to compute effective irrigation efficiency (E_e) is ____ 1 point
- a. $E_e = E_c \times E_a \times 100$
b. $E_e = [E_o + (FR) \times (1.0 - E_o)] \times 100$
c. $E_e = [E_o + (FR) \times (10 - E_o)] \times 100$
d. $E_e = (E_c - E_a) \times 100$
- a.
 b.
 c.
 d.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
b.
- 7) Determine the present value of the income from alfalfa 6 years from now at a required rate of return of 5%. Assume inflation of costs of 5% per year and no inflation in the selling price of alfalfa. The present value of alfalfa production is \$631/acre-yr. Operating expenses are \$321/acre-yr. 1 point
- a. \$170-171 /acre
b. \$141-142 /acre
c. \$149-150 /acre
d. \$165-166 /acre
- a.
 b.
 c.
 d.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
c.
- 8) The yield of the irrigated and rain-fed crop is 3.9 and 2.5 t/ha, respectively. If the evapotranspiration for irrigated and rain-fed crop is 45 and 35 cm, respectively, the crop water use efficiency (K_g /ha-cm) for rice crop will be 1 point
- a. 140
b. 120
c. 100
d. 160
- a.
 b.
 c.
 d.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
a.
- 9) A stream of 135 lps has diverted from a canal and 100 lps were delivered to the field. An area of 1.6 ha was irrigated in 8 hours. The effective depth of the root zone was 1.8 m. The runoff loss in the field was 500 m³. Available moisture-holding capacity of the soil is 30 cm per meter depth of the soil. Determine the overall irrigation efficiency (in %). 1 point
- a. 71-75
b. 80-85
c. 60-65
d. None of the above
- a.
 b.
 c.
 d.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
c.
- 10) The depths of infiltration along the length of a border strip at points 30 meters apart were measured. Their values are 1.0, 0.9, 0.8, 0.6 and 0.5 meters. Compute the distribution efficiency 1 point
- a. 71-73
b. 77-80
c. 80-82
d. 87-89
- a.
 b.
 c.
 d.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
b.