

Unit 6 - Week 4

Course outline

How to access the portal

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Week 4

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- Lecture 17 : Surface Irrigation
- Lecture 18 : Furrow Irrigation Hydraulics
- Lecture 19 : Border Irrigation Design
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Assignment 4

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

Due on 2019-08-28, 23:59 IST.

1) Storage phase begins when the

1 point

- a) Depletion phase ends
- b) Advance phase ends
- c) Water is turned into the field
- d) Inflow ends

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) Advance phase ends

2) The field is divided into small units surrounded by dikes in

1 point

- a) Basin irrigation
- b) Furrow irrigation
- c) Sprinkler irrigation
- d) Drip irrigation

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) Basin irrigation

3) The vertical distance between the advance and recession phase curves is _____

1 point

- a. Infiltration opportunity time
- b. Depletion Phase
- c. Storage Phase
- d. Recession Phase

No, the answer is incorrect.
Score: 0

Accepted Answers:
a. Infiltration opportunity time

4) The minimum land slope required for surface methods of water application is:

1 point

- a. 0.01%
- b. 0.05%
- c. 0.10%
- d. 0.15%

No, the answer is incorrect.
Score: 0

Accepted Answers:
b. 0.05%

5) The most suitable method of irrigation for potato crop is_____

1 point

- a. Corrugation Method
- b. Check Basin Method
- c. Furrow Method
- d. Border Method

No, the answer is incorrect.
Score: 0

Accepted Answers:
c. Furrow Method

6) If a border of dimension 8x100 m is being irrigated for 3 hours by a stream of 5 liters per second, the average depth (in cm) of the advancing water is?

1 point

- a) 5
- b) 10
- c) 6.75
- d) 67.5

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) 6.75

7) An irrigation stream of 25 liters per second is diverted to a check basin of size 12 m × 10 m. The water holding capacity of the soil is 15%. The average soil moisture content in the root zone of 1 m depth prior to applying water is 7%. How long should the irrigation stream be applied in the basin (in mins) to replenish the root zone moisture to its field capacity, assuming no loss due to deep percolation and the soil apparent specific gravity of 1.5?

1 point

- a) 9.6
- b) 8
- c) 10
- d) 576

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) 9.6

8) A furrow spaced at 0.8 m apart and 100 m long is having an inflow rate of 15 liters per second with an advance time to the end of the furrows as 20 min. After that, if the inflow rate was cut back to 2 liters per second and continued for 1 hour, the average depth of irrigation (in cm) is

1 point

- a. 0.19-0.20
- b. 0.12-0.13
- c. 0.31-0.32
- d. 31-32

No, the answer is incorrect.
Score: 0

Accepted Answers:
d. 31-32

9) If the intake opportunity and advance times are 1h and 11 minutes, respectively and the flow per unit width to a 300 m long furrow is 25 liters per second with an application depth of 25 cm, the application efficiency (in %) is

1 point

- a. 84-85
- b. 80-81
- c. 70 -71
- d. 74-75

No, the answer is incorrect.
Score: 0

Accepted Answers:
c. 70 -71

10) If the advance and cutoff times are 11 mins and 1 h, respectively, the intake opportunity time (in min) is

1 point

- a. 11
- b. 60
- c. 71
- d. 49

No, the answer is incorrect.
Score: 0

Accepted Answers:
d. 49