

Unit 3 - Week 1

Course outline

How to access the portal

Week 0 Assignment 0

Week 1

- Lecture 1 : Introduction
- Lecture 2 : Soil properties-1
- Lecture 3 : Soil properties-2
- Lecture 4 : Soil water
- Lecture 5 : Tutorial
- Lecture Material
- Quiz : Assignment 1
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Assignment 1

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

Due on 2019-08-14, 23:59 IST.

1) The net irrigated area in India is _____% of the net sown area.

1 point

- a. 62.31
- b. 44.2
- c. 30
- d. 70

- a.
- b.
- c.
- d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

2) The relationship between void ratio (e) and porosity (n) is

1 point

- a. $e = \frac{n}{1-n}$
- b. $e = \frac{1}{1+n}$
- c. $e = \frac{n}{2n}$
- d. $e = \frac{n}{1+n}$

- a.
- b.
- c.
- d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
a.

3) The medium irrigation projects have an irrigation potential of _____ ha

1 point

- a. >10000 ha
- b. 2000-10000 ha
- c. = 10000 ha
- d. none of the above

- a.
- b.
- c.
- d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

4) What is the gross command area (ha) if the cultural command area is 200 ha and the rest of the area is under barren land, alkaline soil, local ponds, villages and roads which is 800 ha?

1 point

- a. 200
- b. 600
- c. 800
- d. 1000

- a.
- b.
- c.
- d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
d.

5) A wheat crop requires 5 cm of water after every 20 days and the base period is 140 days. What is delta (cm) and duty (ha/cumec) of the wheat crop?

1 point

- a. 0.35 and 3456
- b. 0.35 and 42336
- c. 35 and 3456
- d. 35 and 42336

- a.
- b.
- c.
- d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
c.

6) If a soil containing 40% Sand, 40% Silt and 20% Clay: What is its textural class?

1 point

- a. Sandy loam
- b. Silty clay loam
- c. loamy sand
- d. loam

- a.
- b.
- c.
- d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
d.

7) If the dry basis water content at saturation and bulk density of the soil are 25% and 1.5 g/cm³, respectively, the volumetric moisture content (%) and the porosity (%) is

1 point

- a. 25% and 37.5 %
- b. 37.5% and 37.5 %
- c. 16.66% and 20 %
- d. 37.5 % and 25 %

- a.
- b.
- c.
- d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

8) The water that is available to plants is held in soil at a suction of _____

1 point

- a. 1/3 to 15 bar
- b. 0 to 1/3 bar
- c. 1/3 to 31 bar
- d. 15 to 31 bar

- a.
- b.
- c.
- d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
a.

9) If the field capacity (% vol) and wilting point (% vol) of water held in the soil is 32% and 11%, respectively at root zone depth of 60 cm, the readily available water (RAW in cm) is _____

1 point

- a. 21
- b. 10
- c. 12.6
- d. 15

- a.
- b.
- c.
- d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
c.

10) If the readily available water (RAW) is 12.6 cm and maximum allowable deficiency (MAD) is 0.5 then the available water (AW) is (cm) _____

1 point

- a. 0.5
- b. 6.3
- c. 12.6
- d. 25.2

- a.
- b.
- c.
- d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
d.