Week 2 Assignment 2
The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2018-08-15, 23:59 IST.

1) Erosion Index is based on
(a) $I_{15}$
(b) $I_{30}$
(c) $I_{45}$
(d) $I_{60}$

No, the answer is incorrect.
Score: 0
Accepted Answers:
(b) $I_{30}$

2) Soil loss phenomena is
(a) a dynamic event
(b) a cyclic event
(c) soil properties
(d) Cropping pattern and management practices

No, the answer is incorrect.
Score: 0
Accepted Answers:
(a) a dynamic event

3) For a watershed, the universal soil-loss equation computes

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No, the answer is incorrect.
Score: 0
Accepted Answers:
(b) average annual soil loss

4) Crop management factor in USLE has maximum value of  
   
   - (a) 0
   - (b) 0.5
   - (c) 1
   - (d) 1.5

No, the answer is incorrect.
Score: 0
Accepted Answers:
(c) 1

5) The soil erodibility factor needs to be determined for use in the universal soil loss equation.  
   The length (in m) and slope (in %) of the experimental plot to be used for this purpose, respectively, are  
   
   - (a) 22, 9
   - (b) 21, 11
   - (c) 28, 9
   - (d) 23, 8

No, the answer is incorrect.
Score: 0
Accepted Answers:
(a) 22,9

6) In the universal soil loss equation (USLE), the soil erodibility factor K is  
   
   - (a) a measure of the susceptibility of soil particles to detachment and transport
   - (b) slope length gradient factor
   - (c) crop management factor
   - (d) rainfall-runoff factor

No, the answer is incorrect.
Score: 0
Accepted Answers:
(a) a measure of the susceptibility of soil particles to detachment and transport

7) The factor C of USLE is affected by  
   
   - (a) land slope
   - (a) slope length
   - (c) soil properties
   - (d) cropping pattern and management practices

No, the answer is incorrect.
Score: 0
Accepted Answers:
(d) cropping pattern and management practices

8) For a given watershed, the rainfall erosivity index is 1000 MJ-mm/ha-h, soil erodibility index is 0.25 Mg-ha-h/MJ-mm, crop management factor is 0.75, conservation factor is 1.0 and slope length factor is 0.2. If by certain conservation practices, the conservation practice factor is reduced to -0.7, than the
reduction in soil loss, in t/ha/y is

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Numeric) 11.25

9) The soil loss from the field with 5\% slope and for crop management factor of 0.25 is 44.80 Mg/ha. Along with crop management factor, contouring having a conservation factor value of 0.15 is adopted as the soil conservation measure in the field. The changed soil loss from the field is

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Numeric) 26.87

Please note that this answer is case insensitive string match so follow the hint the answer carefully

Conservation practice factor of a watershed having 18 ha contour farming and 12 ha strip cropping are 0.6 and 0.3, respectively. The slope steepness factor is 1.2. The soil erodibility factor is 0.04 Mg-ha-h/ha-MJ-mm. The rainfall and runoff erosivity index for geographic location is 5000 MJ-mm/ha-h. The slope length is 100 m. The dimensionless exponent in slope length factor is 0.1. The average annual soil loss (kg/ha) from the watershed is

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: String) 47.070*10^3