

# Unit 6 - Week 5

## Course outline

How does an NPTEL online course work?

Week 1

Week 2

Week 3

Week 4

Week 5

Lecture 21 Sustainable Sites - I

Lecture 22 Sustainable Sites - II

Lecture 23 Sustainable Sites - III

Lecture 24 Sustainable Sites - IV

Lecture 25 Sustainable Sites - V

Quiz : Assignment 5

Solution for Assignment 5

Week 6

Week 7

Week 8

Week 9

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Week 12

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## Assignment 5

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

Due on 2020-03-04, 23:59 IST.

- 1) Brown field development refers to 1 point
- Development of land without any vegetation
  - Development of land contaminated with hazardous waste and pollution
  - Development of land which has vegetation
  - Development of land which used to be agricultural land

No, the answer is incorrect. Score: 0

Accepted Answers: *Development of land contaminated with hazardous waste and pollution*

- 2) Higher is the density of development 1 point
- Lesser is the requirement of infrastructure capacity
  - Higher is the requirement of infrastructure capacity
  - Has no impact on the infrastructure needed
  - It is highly difficult to provide infrastructure

No, the answer is incorrect. Score: 0

Accepted Answers: *Lesser is the requirement of infrastructure capacity*

- 3) Infiltration trench is 1 point
- Trench for filtering the water
  - A rock filled trench that holds storm-water runoff
  - Trench that collects filtered water to be stored and reused
  - Concrete trench to divert the storm water to the rainwater harvesting pit

No, the answer is incorrect. Score: 0

Accepted Answers: *A rock filled trench that holds storm-water runoff*

- 4) Seeding is done on the soil to \_\_\_\_\_ (Multiple Answers) 1 point
- Reduce the flow of water
  - Increase Percolation of water
  - Grow trees
  - Easy evaporation of water

No, the answer is incorrect. Score: 0

Accepted Answers: *Reduce the flow of water*  
*Increase Percolation of water*

- 5) Micro-climate of a city is generally the climatic condition of 1 point
- The first 1m above the ground surface.
  - Exactly at the ground surface.
  - The first 100m above the ground surface.
  - At 1000m above the ground surface.

No, the answer is incorrect. Score: 0

Accepted Answers: *The first 100m above the ground surface.*

- 6) The phenomenon of temperature of cities being higher than the temperature of the surrounding areas is called as 1 point
- Cool sea phenomenon
  - Urban Heat Islands
  - Hot Surface Phenomenon
  - Urban heat waves

No, the answer is incorrect. Score: 0

Accepted Answers: *Urban Heat Islands*

- 7) Provision of Permeable pavement helps in \_\_\_\_\_ (Multiple Answers) 1 point
- Limiting imperviousness
  - Increase in storm water run-off volumes
  - Decrease in storm water run-off volumes
  - Increased soil erosion

No, the answer is incorrect. Score: 0

Accepted Answers: *Limiting imperviousness*  
*Decrease in storm water run-off volumes*

- 8) Rainwater is harvested from non-vegetated roof surfaces (1000 sq.m roof area, with runoff coefficient as 0.95). The system is designed to capture the runoff from 25 mm of rainfall. What is the total runoff volume available from this roof surface with the given rainfall ? 1 point
- 21.75 Cum
  - 23.75 Cum
  - 27.75 Cum
  - 26.315 Cum

No, the answer is incorrect. Score: 0

Accepted Answers: *23.75 Cum*

- 9) Which of the following design aspects is not suggested to meet the public needs of differently-abled people 1 point
- Uniformity in flooring level/ ramps
  - Preferred car parking spaces
  - Provision of steps with riser more than 150mm
  - Braille supported Lifts

No, the answer is incorrect. Score: 0

Accepted Answers: *Provision of steps with riser more than 150mm*

- 10) As per MoUD 2011 guidelines (NMSH Parameters) Dedicated and physically segregated bicycle tracks with width of \_\_\_\_\_ or more, one in each direction. 1 point
- 2 meters
  - 1 meter
  - 3 meters
  - 0.75 meters

No, the answer is incorrect. Score: 0

Accepted Answers: *2 meters*