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Courses » Geoenvironmental Engineering (Environmental Geotechnology); Landfills, Slurry Ponds &

Contaminated Sites    Announcements    **Course**    Ask a Question    Progress    Mentor    FAQ

# Unit 11 - Week 10

## Course outline

How to access the portal

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

- Lecture 31 : Slurry Disposal on Land
- Lecture 32 : Disposal of Slurry Waste in Ponds & Impoundments and Dry Waste in Mounds
- Lecture 33 : Geotechnical

## Assignment no. 10

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2018-10-10, 23:59 IST.**

1) Which type of waste is disposed of in the form of slurry? 1 point

- Ash from thermal power plant
- Municipal solid waste
- Biomedical waste
- All of above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Ash from thermal power plant

2) Indicate the correct statement for coal ash: 1 point

- Specific gravity is higher than natural soils, fine particle shapes are spherical and it is non-plastic
- Specific gravity is lower than natural soils, fine particle shapes are spherical and it is plastic
- Specific gravity is higher than natural soils, fine particle shapes are angular and it is plastic
- Specific gravity is lower than natural soils, fine particle shapes are spherical and it is non-plastic

No, the answer is incorrect.

Score: 0

Accepted Answers:

Specific gravity is lower than natural soils, fine particle shapes are spherical ar

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Quiz : Assignment no. 10

Assignment 10 solution

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**Week 11**

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**Week 12**

Conveyor belts

All of above

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
*Pipelines*

4) Inflow pipe in a slurry pond should be at a sufficient distance from the decant tower so as **1 point**  
 to:

Allow more rate of inflow

Allow time for solid particles to settle down

Allow adequate depth of slurry water

Appear visually asethetic

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
*Allow time for solid particles to settle down*

5) The particle size of slurry waste predominantly lies in the range of: **1 point**

Gravel

Cobble

Silty sand

All of above

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
*Silty sand*

6) The concentration of solids in high concentration slurry type of waste is found as: **1 point**

less than 5%

5 to 15%

60 to 70%

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
*60 to 70%*

7) At which of the following thermal plant, ash is disposed in dry form? **1 point**

Dadri

Badarpur

Panipat

All of above

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
*Dadri*

8) Indicate the correct statement: **1 point**

- Fly ash is predominantly silt sized
- Bottom ash is predominantly sand sized
- All of above
- None of above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*All of above*

9) Which of the following chemical compound is found in maximum concentration in fly ash? **1 point**

- Silicon dioxide
- Magnesium oxide
- Iron oxide
- All of above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Silicon dioxide*

10) Which of the following statement is correct with reference to the geotechnical properties of bottom ash produced by thermal power plant? **1 point**

- It has the coefficient of permeability between  $10^{-2}$  to  $10^{-4}$  cm/sec
- The angle of internal friction ranges between  $38^\circ$  to  $42^\circ$
- It has much lower value of compressibility in comparison with fly ash
- All of above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*All of above*

11) Which of the following volume-change behavior is exhibited by loose pond ash in direct shear tests during drained shear? **1 point**

- Dilatant behavior
- Compressive behavior
- Constant volume change behavior

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Compressive behavior*

12) Which of the following material is observed in maximum concentration near the inflow point in ash pond? **1 point**

- Sand sized material
- Silt sized material
- Clay sized material
- None of above

No, the answer is incorrect.

Score: 0

Accepted Answers:

*Sand sized material*

◀ Previous Page

End ▶