

Unit 7 - Week 5

Course outline

How does an NPTEL online course work?

Practice Assignment

Week 1

Week 2

Week 3

Week 4

Week 5

● Lecture 19: Particle energy field theory- III

● Lecture 20: Waste: A manmade resource-I

○ Lecture 21: Waste: A manmade resource-II

● Lecture 22: Waste: A manmade resource-III

● Lecture 23: Application of industrial by-products- I

○ Download Videos

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○ Quiz : Assignment-5

○ Assignment-5 solutions

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

Text Transcripts

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) Which of the following processes do not lead to the densification of soils? 1 point

- Consolidation
 Compaction
 Swelling
 Drying

No, the answer is incorrect.
Score: 0

Accepted Answers:
Swelling
Drying

2) Match the following: 2 points

- | | |
|-----------------------------|------------------|
| i. Magnetic energy field | a. Coulomb's law |
| ii. Mechanical energy field | b. Lenz's law |
| iii. Thermal energy field | c. Hook's law |
| iv. Electrical energy field | d. Fourier's law |

- b, c, d, a
 d, a, c, b
 b, c, a, d
 c, d, a, b

No, the answer is incorrect.
Score: 0

Accepted Answers:
b, c, d, a

3) Utilization of which of the following materials might bring sustainability in the construction industry? 2 points

- Copper slag
 Scraped tyre
 Portland cement
 All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Copper slag
Scraped tyre

4) Which of the following processes are a part of leather manufacturing? 1 point

- Tanning
 Electroplating
 Spinning
 All the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Tanning

5) Which of the following industrial by-products will form during the life cycle of coal-based electricity generation? 1 point

- Coal washery residues
 Fly ash
 Overburden
 All the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All the above

6) Which of the following properties of the coal stacks would lead to fire? 1 point

- Carbon
 Formation of CH₄
 Both a and b

No, the answer is incorrect.
Score: 0

Accepted Answers:
Both a and b

7) Which of the following statements are correct? 2 points

- Usage of industrial by-products which can decay over a period are not preferred for embankment construction
 Coal washeries might generate a leachate which consists of toxic chemicals
 Utilization of MSW as fill material is preferable as the decay rates are very negligible
 Industrial by-products are always toxic

No, the answer is incorrect.
Score: 0

Accepted Answers:
Usage of industrial by-products which can decay over a period are not preferred for embankment construction
Coal washeries might generate a leachate which consists of toxic chemicals

8) Which of the following features/properties of the fly ash support its utilization in cement manufacturing? 2 points

- Pozzolanitic
 High organic content
 High alkalinity
 All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Pozzolanitic