

Unit 5 - Week 4

Course outline

How to access the portal

Week 1

Week 2

Week 3

Week 4

● Alternative Fuel for cement and Embodied Energy

● Life Cycle Embodied Energy and Concrete Sustainability

○ Strength of Concrete and Use of Admixtures

● Curing Methods and Use of Waste Water for Mixing and Curing

● Modern Composite Concrete

● PDF File

○ Quiz : Assignment 4

○ Feedback Form

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

Solution of Assignment

Assignment 4

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

Due on 2019-08-28, 23:59 IST.

1) All energy can be expressed in terms of:

- Equivalent carbon emission
 Equivalent combustion
 Equivalent carbon consumption
 None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Equivalent carbon emission

2 points

2) Match the following:

1	Statistical Analysis	A	Combination
2	Input/Output Analysis	B	Money flow from industry to sector
3	Process Analysis	C	Industry Data
4	Hybrid	D	Examination of process

- 1-B,2-D,3-C,4-A
 1-C,2-B,3-D,4-A
 1-A,2-B,3-C,4-D
 1-D,2-A,3-C,4-B

No, the answer is incorrect.
Score: 0

Accepted Answers:
1-C,2-B,3-D,4-A

6 points

3) Chemical admixtures are used for long term strength and durability enhancement.

- True
 False

No, the answer is incorrect.
Score: 0

Accepted Answers:
False

2 points

4) Using waste water for curing was shown to result in a lower compressive strength and better imperviousness at 28 days wrt tap water curing.

- The above statement is true
 The above statement is false
 The above statement is partially true

No, the answer is incorrect.
Score: 0

Accepted Answers:
The above statement is partially true

2 points

5) Which of the following is true for SAP:

- Creamy white flaky particles
 Finely divided particulate material
 45-850 microns in diameter
 Has an effect on consistency at high dosages

No, the answer is incorrect.
Score: 0

Accepted Answers:
Finely divided particulate material
45-850 microns in diameter
Has an effect on consistency at high dosages

3 points

6) In roller compacted concrete:

- The mix design results in high slump
 Compaction is an important factor for strength
 The mix doesn't need further vibration
 Is usually a dry mix

No, the answer is incorrect.
Score: 0

Accepted Answers:
Compaction is an important factor for strength
Is usually a dry mix

0 points

7) Geo polymer concrete is usually cured at low temperatures in order to avoid early age cracking. True or false?

- True
 False

No, the answer is incorrect.
Score: 0

Accepted Answers:
False

2 points