Assignment 7

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

1) In ready mix concrete (RMC), the strength of concrete ..........., with increasing Retamping water.

Fill in the blank with ‘increases’ / ‘decreases’ / ‘remains same’.

No, the answer is incorrect. Score: 0
Accepted Answers: increase

1 point

2) Planned time of haul from a RMC plant to the construction site at 25°C ambient temperature is 1 hour. For the same distance, if the ambient temperature increases to 35°C, the time of haul has to be ..........., in order to maintain same workability of mix. Assume all other factors to remain same.

- Decreased
- Increased
- Can be kept same
- Temperature does not affect the loss of workability of concrete

No, the answer is incorrect. Score: 0
Accepted Answers: Decreased

2 points

3) Which of the following is a component properties of workability

- Compressibility
- Mobility
- Compressibility
- Stability

No, the answer is incorrect. Score: 0
Accepted Answers: Compressibility

2 points

4) Assertion - Narrow opening buckets are preferred over wide opening buckets for placing concrete.

Reason - Narrow opening buckets provide directional flow

- Assertion and reason both are true and reason is the correct explanation of assertion
- Assertion and reason both are true but reason is not the correct explanation of assertion
- Assertion is true and reason is false.
- Assertion is false and reason is true.

No, the answer is incorrect. Score: 0
Accepted Answers: Assertion is false and reason is true.

2 points

5) Identify the major issues in transport of RMC

- Uniformity
- Loss of slump
- Breaking of aggregates
- None of the above

No, the answer is incorrect. Score: 0
Accepted Answers: Uniformity, Loss of slump

2 points

6) Q9-Q17 are linked

At a construction site, concrete has to be pumped for placing. If the pumping pressure at the delivery end, $p_2$ is 55 $kg/cm^2$, internal diameter of the pipe, D, used for pumping is 18 cm and how resistance per unit area of the pipe, $H = 0.73 x 10^{-4} \text{ kgm}^2$, answer the following questions.

What is the maximum pumpable distance (in m) when concrete is pumped in saturated state?

No, the answer is incorrect. Score: 0
Accepted Answers: 300

3 points

No, the answer is incorrect. Score: 0
Accepted Answers: 225

3 points

7) Determine the pressure (in $kg/cm^2$) in the pipe at a distance 90m away from the delivery end?

- 19
- 21
- 24
- 36

No, the answer is incorrect. Score: 0
Accepted Answers: 21

3 points