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NPTEL

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Unit 12 - Week 11

Course outline

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Week 11

- Non Destructive Testing
- Non Destructive Testing- 2
- Core strength test
- Carbonation

Assignment 11

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

Due on 2018-10-17, 23:59 IST.

1) Which of the following is not an indirect test? ***2 points***

- Rebound hammer test
- Windsor Probe
- Core test
- Ultrasound test

No, the answer is incorrect.
Score: 0

Accepted Answers:
Core test

2) Rebound number is an index of hardness upto a depth of _____ mm. ***2 points***

- 50
- 45
- 30
- 25

No, the answer is incorrect.
Score: 0

Accepted Answers:
30

3) Rebound hammer number can independently give the strength value and calibration of rebound hammer number with strength is not necessary. ***2 points***

- True
- False

- [ ] Stress history
- [ ] w/c
- [ ] Presence of reinforcement
- [ ] Strength of concrete in MPa

No, the answer is incorrect.
Score: 0

Accepted Answers:
Stress history
Presence of reinforcement

5) What is the recommended l/d ratio for core test? ***2 points***

- ( ) 1.5-3
- ( ) 1-2
- ( ) 2-3

No, the answer is incorrect.
Score: 0

Accepted Answers:
1-2

6) Which of the following tests can calculate carbonation in concrete? ***2 points***

- [ ] Can be measured by phenolphthalein spray
- [ ] Compressive strength test
- [ ] FTIR
- [ ] UPV Test

No, the answer is incorrect.
Score: 0

Accepted Answers:
Can be measured by phenolphthalein spray
FTIR

7) You have to test 3 cores from a slab; m.s.a of the concrete is 20 mm. 70 mm diameter drill bit was selected and lengths of 3 cores after trimming are 80 mm, 135 mm and 100 mm respectively. All drilling has been done vertically downward. The loads at failures are 150kN, 140kN and 100kN respectively for these lengths of core. What is the average in-situ strength? What f_{ck} would you recommend (as per IS code)? [Use the BS-EN formula for calculating in-situ strength]. Round off to nearest whole number. **Invalid HTML tag: tag name o:p is not allowed** ***8 points***

- ( ) 50 MPa
- ( ) 35 MPa
- ( ) 40 MPa
- ( ) 25 MPa

No, the answer is incorrect.
Score: 0

Accepted Answers:
40 MPa

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