Unit 12 - Week 11

Assignment 11

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?  
- 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.

- 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.

- True  
- False

Score: 0
5) What is the recommended d/l ratio for core test?  

- 1.5-3  
- 1-2  
- 2-3  

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
Stress history  
Presence of reinforcement

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

- 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. 708 points 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.  

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