

110311: Building Materials & Construction (Section B)

Assignment/Practice Questions (Set 4)

Last Date of Submission: 14/11/2022

Practice all questions and submit any four

Q1: What do you understand by the workability of concrete? What are various factors affecting workability of concrete? Enlist various workability test of concrete and explain two tests in detail.

Q2: What are various types of concrete mixers used in concreting? State key characteristics of two types of concrete mixers in details?

Q3: What are various types of methods involved in transportation of concrete? State two methods in details?

Q4: What are various types of methods involved in vibrators used in concreting? State two types of vibrators in detail?

Q5: What are various types of curing methods involved in concreting? State two types of concreting methods in detail?

Q6: What are various types of challenges you encounter during concreting in hot and cold weather conditions? Explain the methods adopt to handle them?

Q7: What are various types of mechanical properties of hardened concrete? Explain the compressive and flexure strength test of concrete in detail?

Q8: What do you mean by shrinkage of concrete? What are various types of shrinkage in concrete? Explain various factors affecting the shrinkage in concrete?

Q9: What do you mean by creep in concrete? Explain various factors affecting the creep in concrete?

Q10: Explain the influence of water-cement ratio and gel space ratio on the strength of concrete?

Q11: What do you understand by the mortar? What are the functions of mortar? Enlist various types of mortars and compare their key characteristics?

Q12: What do you understand by the Paint, Distemper and Varnishes? What are the requirements of ideal paint? Enlist various types of paints and compare their key characteristics?

Q13: What do you understand by grouting and guniting? Highlight the key differences between both of them?

Q14: What do you understand by ferrous metals? Enlist various types of ferrous metals and compare their key characteristics?