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10CV81

Eighth Semester B.E. Degree Examination, June/July 2018
Advanced Concrete Technology

Time: 3 hrs.

Max. Marks: 100

- Note:** 1. Answer any FIVE full questions, selecting at least TWO questions from each part.
 2. Missing data may be suitably assumed.
 3. Use of IS: 10262-2009 and IS 456-2000 are permitted.

PART - A

1.
 - a. Enumerate the importance of Bogue's compounds in ordinary portland cement. (07 Marks)
 - b. Explain the rheology of concrete in terms of Bingham's parameter. (07 Marks)
 - c. Determine capillary porosity, total porosity and gel space ratio for a cement paste with W/C ratio 0.5 and degree of hydrogen 90%. (06 Marks)
2.
 - a. Explain the mechanism of 'deflocculation' of cement particles by super plasticizers with neat sketches. (10 Marks)
 - b. Explain the Marsh cone test for optimum dosage of superplasticizer. (05 Marks)
 - c. Explain the effect of Flyash on hardened concrete. (05 Marks)
3.
 - a. Explain the factors affecting the mix design of concrete. (06 Marks)
 - b. Design a concrete mix of M₂₀ grade for the following data [M₂₀ grade].
 Maximum size of aggregate = 20 mm
 Workability = 100 mm [Slurry]
 Degree of quality control = good
 Type of exposure = mild
 Specific gravity of cement = 3.15
 Specific gravity of coarse aggregate = 2.65
 Specific gravity of fine aggregate = 2.60
 Water absorption of coarse aggregate = 0.5%
 Water absorption of fine aggregate = 1.0%
 Free surface moisture coarse aggregate = Nil
 Free surface moisture fine aggregate = 2.0%
 Coarse aggregate percentage of different fractions 60% : 40%
 Fine aggregate belongs to Zone II. (14 Marks)
4.
 - a. Explain the influence of W/C ratio and age on permeability of concrete. (07 Marks)
 - b. Discuss in brief alkali aggregate reaction. What precautions are necessary to minimize? (07 Marks)
 - c. What is sulphate attack? Explain briefly the methods of controlling sulphate attack. (06 Marks)

PART - B

5.
 - a. What is RMC? Explain briefly advantages of RMC. (06 Marks)
 - b. Explain shotcrete and under water concreting. (06 Marks)
 - c. What are the advantages of self compacting concrete? What are different test methods for determining the rheology of self compacting concrete? (08 Marks)

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