

Fourth Semester B.E. Degree Examination, June/July 2013
Concrete Technology

Time: 3 hrs.

Max. Marks:100

*Note: 1. Answer FIVE full questions, selecting at least TWO questions from each part.
 2. Use of IS 10262-2009 is permitted.
 3. Assume any missing data suitably.*

PART – A

1. a. What are the constituents of cement? Explain the role of constituents in controlling the properties of cement. (08 Marks)
 b. Define the terms: i) Standard consistency ii) Fineness and iii) Soundness. Explain their significance. (06 Marks)
 c. Distinguish between i) False set and Flash set ii) Dry process and wet process iii) Hydraulic cements and non-hydraulic cements. (06 Marks)
2. a. How do you classify aggregates? Describe the characteristics of aggregate influencing the behavior of concrete. (10 Marks)
 b. Explain the significance of Bulking of Fine aggregates and Gap grading. (04 Marks)
 c. In a sieve analysis of 1000 gms of sand, the weights (gm) retained on different I.S. sieves are: 10mm = 0, 4.75mm = 20, 2.36mm = 100, 1.18mm = 100, 600 Microns = 190, 300 microns = 350, 150 Microns = 170 and passing 150 microns = 70. Determine the fineness modulus of sand. (06 Marks)
3. a. Explain the factors affecting consistency and cohesiveness of fresh concrete mixtures. Suggest ways to improve. (08 Marks)
 b. Explain any two methods, equipments and advantages of handling and placing concrete. (06 Marks)
 c. Explain the significance of setting time of concrete. (06 Marks)
4. a. Explain the role of mineral admixture and chemical admixtures. (08 Marks)
 b. What are supplementary cementitious materials? Explain the characteristics and use of any two. (06 Marks)
 c. Discuss the composition and usefulness of rice husk ash and GGBs. (06 Marks)

PART – B

5. a. Depict the interplay of factors influencing concrete strength, preferably through a simplified flow chart. (08 Marks)
 b. Establish the relationship between (i) compressive strength and tensile strength ii) Cube strength and cylinder strengths. (06 Marks)
 c. Strength of a fully mature concrete is 30 MPa. Find the strength of concrete at an age of 7 days when cured at an average temperature of 25°C during day (12 hours) and 10°C during night (12 hours). Use the relation for strength at maturity as percentage of strength at full maturity, express as $A + B \log_{10} \frac{\text{Maturity}}{1000}$, when A = 21 and B = 61 corresponding to strength at full maturity. (06 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
 2. Any revealing of identification, appeal to evaluate and/or equations written eg. Q.4 = 50, will be treated as malpractice.



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