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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 IS456-2000 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 shot crete 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)

Vtu 8th Sem Ece Question Papers

Scott C. Dulebohn



Vtu 8th Sem Ece Question Papers:

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Table of Contents Vtu 8th Sem Ece Question Papers

1. Understanding the eBook Vtu 8th Sem Ece Question Papers
 - The Rise of Digital Reading Vtu 8th Sem Ece Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Vtu 8th Sem Ece Question Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Vtu 8th Sem Ece Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Vtu 8th Sem Ece Question Papers

- Personalized Recommendations
 - Vtu 8th Sem Ece Question Papers User Reviews and Ratings
 - Vtu 8th Sem Ece Question Papers and Bestseller Lists
5. Accessing Vtu 8th Sem Ece Question Papers Free and Paid eBooks
 - Vtu 8th Sem Ece Question Papers Public Domain eBooks
 - Vtu 8th Sem Ece Question Papers eBook Subscription Services
 - Vtu 8th Sem Ece Question Papers Budget-Friendly Options
 6. Navigating Vtu 8th Sem Ece Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Vtu 8th Sem Ece Question Papers Compatibility with Devices
 - Vtu 8th Sem Ece Question Papers Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Vtu 8th Sem Ece Question Papers
 - Highlighting and Note-Taking Vtu 8th Sem Ece Question Papers
 - Interactive Elements Vtu 8th Sem Ece Question Papers
 8. Staying Engaged with Vtu 8th Sem Ece Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Vtu 8th Sem Ece Question Papers
 9. Balancing eBooks and Physical Books Vtu 8th Sem Ece Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Vtu 8th Sem Ece Question Papers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Vtu 8th Sem Ece Question Papers
 - Setting Reading Goals Vtu 8th Sem Ece Question Papers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Vtu 8th Sem Ece Question Papers

- Fact-Checking eBook Content of Vtu 8th Sem Ece Question Papers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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