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10CV81

Eighth Semester B.E. Degree Examination, Dec.2017/Jan.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. Use of IS 10262-2009 is permitted.

**PART - A**

1. a. Enumerate the importance of Bogue's compounds. (06 Marks)  
b. Calculate the Gel/space ratio from the following data:  
i) Weight of cement = 600 gm  
ii) Percentage of hydration = 90%  
iii) Water cement ratio = 0.5 (06 Marks)  
c. What are the factors affecting the strength and elasticity of concrete? (08 Marks)
2. a. Explain the mechanism of deflocculation of cement particles by using plasticizers with neat sketches. (06 Marks)  
b. How do you determine the optimum dosage of super-plasticizer using Marsh Cone? (06 Marks)  
c. What are mineral admixtures? Explain: (i) GGBS, (ii) Fly Ash. (08 Marks)
3. a. Explain the factors affecting the mix design of concrete. (06 Marks)  
b. Design a concrete mix for M30 from the following data:  
Type of cement = OPC 53 grade  
Maximum size of aggregate = 20 mm  
Minimum cement content = 310 kg/m<sup>3</sup>  
Maximum W/C ratio = 0.45  
Workability = 50-75 mm slump  
Exposure condition = normal  
Degree of supervision = good  
Water absorption = 0.5% (CA)  
Free surface moisture = Nil (CA)  
Specific gravity of cement = 3.15  
Specific gravity of CA = 2.80  
Specific gravity of FA = 2.60  
Specific gravity of super plasticizer = 1.2  
Missing data may be suitably assumed. (14 Marks)
4. a. Explain Alkali-Aggregate reaction. (06 Marks)  
b. List the methods of controlling sulphate attack. (06 Marks)  
c. Define durability. Explain the factors affecting durability. (08 Marks)

**PART - B**

5. a. Explain briefly advantages of RMC. (06 Marks)  
b. What are the advantages of SCC? (06 Marks)  
c. List the factors affecting the workability. Explain any one workability test conducted on S.C.C. (08 Marks)

# Civil Engineering Project Work For Vtu 8th Sem Be

**Annelies Wilder-Smith**



**Civil Engineering Project Work For Vtu 8th Sem Be:**

## **Civil Engineering Project Work For Vtu 8th Sem Be** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Civil Engineering Project Work For Vtu 8th Sem Be**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

<https://www.portal.goodeyes.com/results/detail/index.jsp/Ceb%20Deep%20Blue%20Kids%20Bible%20Bright%20Sky.pdf>

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