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CE-8404 Concrete Technology

Important 13Mark Questions

Unit I

1. Explain in detail any three laboratory tests conducted on cement as per IS code.
2. How do you determine the crushing strength and toughness of aggregates?
3. What is the effect of water cement ratio on strength and durability of concrete?

Unit II

1. Brief about the functions and requirements of water proofing admixtures.
2. Discuss about the performance of GGBS in concrete.
3. Differentiate between accelerators and retarders with suitable examples and also, how you can determine dosage of admixtures?

Unit III

1. Explain the step by step procedure of concrete mix design recommended by IS method.
2. Explain the design procedure of BIS method concrete mix design.
3. Describe about the requirements for concrete mix design.

Unit IV

1. Explain in detail the factors influencing the strength of concrete.
2. Explain the procedure of any three tests conducted on workability of concrete.
3. Describe the methods used to test the hardened concrete.

Unit V

1. Explain in detail about Polymer concrete, types and its applications.
2. Explain about
 - (1) Light weight Concrete
 - (2) High Strength Concrete.
3. What is shotcrete? Explain the procedure of shotcreting a surface.

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