

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.



Eng15answers To 2013 June Question Paper

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Eng15answers To 2013 June Question Paper: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have enthralled audiences this year.

The Must-Read : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail.

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These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered.

The novel begins with Richard Popen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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