

Total No. of Questions : 09

Total No. of Pages : 2

Subject Code : CE-205

Paper ID : [A0603]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
3. SECTION-C contains THREE questions, carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

- I. Write briefly :
 - a) What is meant by durability of stones?
 - b) How are bricks classified? How do they differ in compressive strength?
 - c) What do you understand by the terms Calcination and Hydraulicity?
 - d) Differentiate between Portland Cement and White Cement.
 - e) What are pozzolanic materials? What are their uses?
 - f) What is meant by water cement ratio?
 - g) What is seasoning? How is it necessary in timber?
 - h) List two defects of timber and its remediation.
 - i) Differentiate between Paints and Varnishes
 - j) What is meant by artificial asphalt? What is its use?

SECTION-B

2. What properties you would consider in choosing stone for building construction in an industrial area subject to heavy rains? Name types of stones which you consider preferable.
3. List the various tests you would like to perform on building bricks. Describe the test for water absorption indicating the standards.
4. Consider the properties of lime as a substitute to cement. How can the properties of lime be improved to make it a suitable alternative to cement?
5. What is meant by workability of concrete? How is it measured?
6. What are characteristics of a good timber?

SECTION-C

7. (a) Describe the different methods for design of concrete mix.
(b) Design a concrete mix, when voids in sand and aggregate are 30% and 40% respectively.
8. a) What is distemper? How is it prepared? Give uses of distemper.
b) What is varnish? What is the composition of varnish? What are the qualities of a good varnish?
9. Describe the importance of the following in RCC work :
 - (a) Water Cement Ratio
 - (b) Compaction of concrete
 - (c) Curing of the Concrete
 - (d) Fineness modulus
 - (e) Bulking of Sand.