Roll No.

Total No. of Pages: 02

Total No. of Questions: 09

B.Tech. (CE) (Sem.-3rd)
BUILDING MATERIALS

Subject Code : CE-205 Paper ID : [A0603]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES :

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 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. Answer briefly:

- (a) State, with reason, the kind of stone you will recommend for use in the construction of external wall of a building, situated in the sea shore.
- (b) Mention any 2 advantages of clamp burning.
- (c) Mention any 3 properties of lime, which have made it, a very important engineering material.
- (d) Why is it necessary to cure concrete?
- (e) Enumerate any 2 methods of concrete mix design.
- (f) What do you understand by hydration of concrete ?
- (g) State water-cement law.
- (h) What is seasoning of timber?
- (i) Differentiate between Paints & Varnishes.
- (j) What do you mean by High Strength Concrete ?

SECTION

- What are the different tests applied structural use? Discuss any two tests.
- Write down the properties of First Third Class Bricks (properties).
- What are different kinds of lime availar chemical reactions taking place during
- 5. Discuss various tests performed on Bit
- 6. Explain the following operations in res
 - (a) Transportation of concrete
 - (b) Compaction of concrete

SECTION-

- 7. (a) Explain Bulking of Sand.
 - (b) Describe Initial setting time and Final to find Initial setting time & Final se
- 8. (a) Describe any one method to determ
 - (b) Discuss factors affecting permeability
- 9. (a) How can sap wood of trees be impr
 - (b) What is the object of seasoning timb