

S.B. Roll No.....

**CONSTRUCTION MATERIAL**  
**3<sup>rd</sup> Exam/Civil/0516/4751/Nov'17**

**Duration: 3Hrs.**

**M.Marks:75**

**SECTION-A**

**Q1. a) Fill in the blanks.**

**1x15=15**

- i. Marble is a .....rock.
- ii. Granite is much .....than limestone.
- iii. Presence of iron oxide affects the .....of bricks.
- iv. ....bricks are used for lining of furnaces.
- v. Alumina is added to control the .....of cement.
- vi. Gypsum is added to cement to control.....of cement.
- vii. Hydraulic lime is used for.....
- viii. The two pozzolanic materials are.....and .....
- ix. Annular rings represent .....of the tree.
- x. Decay in timber is due to .....

**b) State True or False**

- xi. Skilled supervision is required in kiln seasoning.
- xii. Water paints are washable after 3-7 days.
- xiii. The thinner used for oil paint is turpentine oil.
- xiv. Wrought iron forms permanent magnet.
- xv. FRP products are heavier.

**SECTION-B**

**Q2. Attempt any five questions.**

**6x5=30**

- a. What do you mean by dressing of stones?
- b. Write a short note on frog.
- c. Give points of comparison between cement and lime.
- d. What are the precautions to be taken in handling lime?
- e. Draw a neat diagram showing section of an exogenous tree.
- f. What are the properties of distempers?
- g. Give the uses of mild steel.
- h. What are heat insulating materials?
- i. What do you mean by following:-
  - a) Calcinations
  - b) Hydraulicity
  - c) Putty
  - d) Fat lime

**SECTION-C**

**Q3. Attempt any three questions.**

**10x3=30**

- i. What are the qualities of a good building stone? Discuss them.
- ii. Write short notes on the following:- **(any two)**
  - a) Seasoning of timber
  - b) Defects in timber
  - c) Veneering
- iii. Describe different ways of molding of bricks.
- iv. What is the main constituent of Portland cement? Explain the function of each.
- v. Distinguish between following:-**(any two)**
  - a. Quick lime and slaked lime
  - b. Feeble hydraulic lime and eminently hydraulic lime.
  - c. Building limes of Class A, Class B and Class C types.