

S. B. Roll. No.....

**CONSTRUCTION MATERIAL**  
**3<sup>rd</sup> Exam/Civil/9451/Nov'24**  
**(For 2018 Batch Onwards)**

**Duration: 3Hrs.**

**M.Marks:75**

**SECTION-A**

**Q1. Fill in the blanks.**

**15x1=15**

- a. Rocks formed by solidification of lava are known as \_\_\_\_\_.
- b. The standard size of brick is \_\_\_\_\_.
- c. The lightest of all the plastics is known as \_\_\_\_\_.
- d. Gypsum is added to control \_\_\_\_\_ of cement.
- e. The constituent which provides body to an oil paint is known as \_\_\_\_\_.
- f. The chief constituent of argillaceous rock is \_\_\_\_\_.
- g. Decay in timber is due to \_\_\_\_\_.
- h. The IS Sieve no \_\_\_\_\_ is used for fineness test.
- i. \_\_\_\_\_ bricks are used for lining of furnaces.
- j. The thinner used for oil paint is \_\_\_\_\_.
- k. The final setting time of OPC should not be more than \_\_\_\_\_.
- l. Purest form of commercial iron is \_\_\_\_\_.
- m. Presence of iron oxide affects \_\_\_\_\_ of brick.
- n. Plastics are organic substances which are prepared out of \_\_\_\_\_.
- o. Annular rings represent \_\_\_\_\_ of the tree.

**SECTION-B**

**Q2. Attempt any six questions.**

**6x5=30**

- i. Discuss the geological classification of rocks.
- ii. Describe the types of varnish.
- iii. Describe the various methods for preservation of timber.
- iv. Briefly explain high alumina cement and rapid hardening cement.
- v. Describe the ingredients of good brick earth.
- vi. Explain the properties of plastics.
- vii. Describe the composition, properties and uses of cast iron.
- viii. Describe the methods of seasoning of timber.
- ix. Explain the properties and uses of ceramic tiles.

**SECTION-C**

**Q3. Attempt any three questions.**

**3x10=30**

- a. Explain the various defects in timber with the help of neat sketches.
- b. Explain the working of Hoffman's kiln for burning of bricks with the help of a neat sketch.
- c. Enlist the various laboratory tests conducted on cement. Explain any two in detail.
- d. Write short note on: i) Stainless Steel ii) Heat insulating material
- e. Define paint. Explain the various ingredients of an oil paint along with function of each.