

Roll no. _____

ID: 180734/170734/120734/030734

Semester: 3rd

Branch: Civil,GE, Brick Tech, Const Mgmt, Highway Engg.

Subject Name: Construction Materials

Time Allowed : 3 Hrs.

MM:100

Section -A

Note: Multiple Choice questions. All questions are compulsory.

$$10 \times 1 = 10$$

Section-B

Note: Objective type questions. All questions are compulsory.

$$10 \times 1 = 10$$

- Note: Objective type questions. All questions are compulsory.**

Q.11 Limestone is derived from calcareous rocks. (True / False) (CO-1)
Q.12 The process of taking out stones from natural rock bed is known as quarrying. (True / False) (CO-1)
Q.13 The standard size of brick is (CO-2)
Q.14 Kallar is a mixture of sodium sulphate and sodium chloride. (True / False) (CO-2)
Q.15 The final setting time of OPC should not be more than hours. (CO-3)
Q.16 Annular rings represents of the trees. (CO-4)
Q.17 Varnish provides uniform and pleasing appearance. (True / False) (CO-5)
Q.18 Stainless steel is used for household utensils. (True / False) (CO-6)

- Q.19 is a building material that consists of a fine, white-coloured.
Q.20 Plastics are organic substances which are prepared out of (CO-7)

Section -C

Note: Short answer type Questions. Attempt any twelve questions out of fifteen questions. **12x5=60**

- Q.21 What are the requirements of a good building stone? (CO-1)
Q.22 Write a short note on geological classification of rocks. (CO-1)
Q.23 Write a short note on vitrified tiles. (CO-2)
Q.24 Describe any five characteristics of good bricks. (CO-2)
Q.25 What are the main constituents of Portland cement? Explain any one of them. (CO-3)
Q.26 Write the properties and uses of Portland Pozzolana cement. (CO-3)
Q.27 What are the characteristics of a good building timber? (CO-4)
Q.28 Write any five advantages of plywood. (CO-4)
Q.29 Write a short note on cement paints. (CO-5)
Q.30 What are the characteristics of an ideal paint? (CO-5)
Q.31 Write any five uses of aluminium as a construction material. (CO-6)
Q.32 Differentiate between ferrous and non-ferrous materials. (CO-6)
Q.33 Write a short note on fire resisting materials. (CO-7)
Q.34 What are heat insulating materials? (CO-7)
Q.35 Write the properties of eco-friendly building materials used in construction. (CO-7)

Section-D

Note: Long answer questions. Attempt any two questions out of three questions.

2x10=20

- Q.36 Explain the working of Bull's Trench Kiln with the help of diagram. (CO-2)
Q.37 Explain the process of manufacture of cement with the help of flow diagram. (CO-3)
Q.38 Explain the process of kiln seasoning with the help of a diagram and write the advantages it. (CO-4)