Total number of printed pages: 01

DIPLOMA/3<sup>RD</sup>/DCE 301

#### 2022

## **CONSTRUCTION MATERIALS**

## Full Marks : 100

#### Time : Three hours

# The figures in the margin indicate full marks for the questions.

		Time . Time nouis	
		The figures in the margin indicate full marks for the questions.	
Answer any five questions.			
		N.O.	
1.	a)	How rocks formed? And give the classification of rocks.	10
	b)	What is dressing of stone? Explain the various types of dressing of stone.	10
2.	a)	Explain in details how lime is manufactured?	10
	b)	How are lime classified?	10
3.	a)	How brick is manufactured?	08
	b)	What are the good engineering properties of bricks?	12
4.	a)	With a flow chart diagram, explain how cement is manufactured by dry process?	10
	b)	What are Bogue's compounds?	10
5.	a)	What do you understand by seasoning of timber? And explain any two methods of seasoning of timber.	12
	b)	Explain the following defects in timber.	08
		(i) Knots (ii) Heart shakes (iii) Twisted fibres and (iv) End splits	
6.	a)	Write the characteristics of an ideal paint?	08
	b)	Depending on the constituents, how is glass classified?	08
	c)	Write the applications of plastics in construction?	04
7.	a)	What are the properties of cast iron?	06
	b)	Write a note on TMT bars.	05
	c)	Write the characteristics of an ideal:	08
		(i) Heat insulation material and	

(ii) Sound insulation materials.