22204

21222 3 Hours / 70 Marks

Seat No.

15 minutes extra for each hour

1.

Instructions : (1) All Questions are *compulsory*.

- (2) Answer each next main Question on a new page.
- (3) Illustrate your answers with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.
- (5) Assume suitable data, if necessary.
- (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

MarksAttempt any FIVE of the following : $5 \times 2 = 10$ () Music constraints of the interval of the

- (a) Mention any two uses of termite proofing.
- (b) State uses of epoxy.
- (c) Give two uses of lime.
- (d) Define quarrying of stones.
- (e) State any two uses of particle board.
- (f) Draw the neat sketch of standard brick.
- (g) State uses of :
 - (i) Coir fibre
 - (ii) Bagasse

2. Attempt any THREE of the following :

- (a) Enlist any four basic areas of civil engineering with scope for applications of construction materials.
- (b) State any four criteria for selection of construction materials.
- (c) State the different types of construction material.
- (d) Draw the structure of timber.

 $3 \times 4 = 12$

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3.	Atte	empt any THREE of the following :	$3 \times 4 = 12$
	(a)	Enlist various test conducted on bitumen & explain one of them.	
	(b)	State & explain defects in timber.	
	(c)	State the two properties of asphalt & bitumen.	
	(d)	State any four properties of coarse aggregate.	
4.	Atte	empt any THREE of the following :	3 × 4 = 12
	(a)	State any four types of glass with its suitability.	
	(b)	Draw the flow diagram of wet process of manufacturing of cement.	
	(c)	List any four special bricks with their use.	
	(d)	State common field test on bricks.	
	(e)	Define wall cladding. State two merits & demerits of it.	
5.	Atte	empt any THREE of the following :	3 × 4 = 12
	(a)	Enlist four properties of thermal insulating material.	
	(b)	State any two properties & uses of glass fibre.	
	(c)	State properties & application of Damp proof material.	
	(d)	State different types of mortars & explain one of them.	
	(e)	List the four properties of POP in building construction.	
6.	Atte	empt any THREE of the following :	$3 \times 4 = 12$
	(a)	State any two properties & uses of paint.	
	(b)	What is meant by fly ash? State any four properties of fly ash.	
	(c)	Write any two uses of :	
	(-)	(i) Saw dust	

- (ii) Ferrocrete
- (d) Write any four application of construction waste.

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