11819 3 Hours / 70 Marks

Seat No.

Instructions: (1)	All Questions are	compulsory.
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- (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) Use of Non-programmable Electronic Pocket Calculator is permissible.
- (7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

			Marks
1.	Atte	empt any FIVE of the following:	(10)
	(a)	State the factors affecting selection of construction materials.	2
	(b)	Define slaking of lime.	2
	(c)	State any two types of glass along with its uses.	2
	(d)	List the materials used for water proofing.	2
	(e)	Enlist the types of paints.	2
	(f)	Define baggage. State its uses.	2
	(g)	Enlist any two natural and artificial construction materials.	2
2.	Atte	empt any THREE of the following:	(12)
	(a)	Explain the criteria for selection of construction materials for different circ	vil
		engineering structures on basis of their strength and durability.	4
	(b)	State the requirements of a good building stone.	4
	(c)	Describe the scope of construction material in environmental engineering.	4
	(d)	Define lime and explain manufacturing of lime by continuous kiln with no	eat
		sketch.	4
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Atte	mpt any THREE of the following:	(12)
(a)	Explain the manufacturing of burnt clay brick.	4
(b)	Enlist the different sound insulating materials and also state their suitability.	4
(c)	Draw the flow chart of manufacturing of cement by wet process.	4
(d)	State the uses of veneers and laminated boards.	4
Atte	empt any THREE of the following:	(12)
(a)	Enlist the methods of quarrying and explain any one in brief.	4
(b)	State the characteristics of a good brick.	4
(c)	Describe in brief termite proofing.	4
(d)	Define plaster of paris. State its uses.	4
(e)	State the advantages and disadvantage of pre-cast concrete.	4
Atte	mpt any THREE of the following:	(12)
(a)	Explain the defects in timber with neat sketch.	4
(b)	Explain various types of cement and also state the uses.	4
(c)	Define artificial sand. State the uses of artificial sand.	4
(d)	State the properties of thermal insulating materials.	4
(e)	Define seasoning of timber. Explain artificial seasoning with sketch.	4
Atte	empt any THREE of the following:	(12)
(a)	Define lime mortar. Explain its properties.	4
(b)	State the uses of fly ash and blast furnace slag.	4
(c)	State the properties and uses of varnishes.	4
(d)	Define rice husk. State the uses of rice husk.	4
	(a) (b) (c) (d) Atte (a) (b) (c) (d) (e) Atte (a) (b) (c) (d) (e) Atte (a) (b) (c) (d) (c) (d) (e)	 (b) Enlist the different sound insulating materials and also state their suitability. (c) Draw the flow chart of manufacturing of cement by wet process. (d) State the uses of veneers and laminated boards. Attempt any THREE of the following: (a) Enlist the methods of quarrying and explain any one in brief. (b) State the characteristics of a good brick. (c) Describe in brief termite proofing. (d) Define plaster of paris. State its uses. (e) State the advantages and disadvantage of pre-cast concrete. Attempt any THREE of the following: (a) Explain the defects in timber with neat sketch. (b) Explain various types of cement and also state the uses. (c) Define artificial sand. State the uses of artificial sand. (d) State the properties of thermal insulating materials. (e) Define seasoning of timber. Explain artificial seasoning with sketch. Attempt any THREE of the following: (a) Define lime mortar. Explain its properties. (b) State the uses of fly ash and blast furnace slag. (c) State the properties and uses of varnishes.
