STITUTE OF PACE	GBCS SCHEME
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Third Semester B.E. Degree Examination, Dec.2019/Jan.2020 **Building Materials and Construction** Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

5	20	(A)	4 2
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1	a.	Mention the importance of stones Bricks and Timber as construction materials.	(06 Marks)
	b.	Explain the manufacture process of Brick with necessary flow chart.	(08 Marks)
	C.	What is Bulking of Sand? Explain its importance in construction field.	(06 Marks)

OR

2	a.	What are the requirements of good building stones?	(06 Marks)
	b.	What are the constituents of good brick earth? Explain.	(06 Marks)
	C.	Which are the methods of seasoning of Timber? Describe them brief.	(08 Marks)

5	a.	which are the functions of	ioundation, i	explain mem of leny.		(OU MAINS)
	b.	Sketch the plan of alternate	courses 1 br	ick thick wall in Eng	lish bond	. Mention its essential
		features.	The state of the s		<i>p</i>	(08 Marks)
		and the second s			•	The second secon

What are the General principles to be observed in stone masonry?

(06 Marks)

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- Differentiate between strip footing and strap footing with sketches. (06 Marks) Sketch the elevation of Flemish bond and mention its special features. (08 Marks) b.
 - Differentiate between uncoursed rubble masonry and Random rubble masonry with a sketch.

(06 Marks)

Module-3

(06 Marks) Draw a neat sketch of an arch and Label its parts: 5 Explain the procedure for laying Marble flooring in Grand floor with a sketch. (06 Marks) Mention the requirements of good roof. Draw the sketch of wooden king post truss (half (08 Marks) part).

6	a.	Discuss various modes of failure of an arch. What are the remedies?	(06 Marks)
	b.	Explain the procedure for laying Mosaic flooring in ground floor with a sketch.	(06 Marks)
		Draw the sketch of wooden Augen post truss (half part) and label its parts	(08 Marks)

Draw the sketch of wooden Queen post truss (half part) and labe

		Module-4		G.
7	a.	Draw a sketch of a wooden door frame with shutter and label its parts.		(06 Marks)
	b.	What are the requirements of good stair?	:	(06 Marks)
	C	What is meant by shoring? Explain Raking shore with a neat sketch.		(08 Marks)

1 of 2

(08 Marks)

8	a.	Write a note on Bay window with a sketch.	(06 Marks)
	b.	Plan a dog legged stair for a building in which the vertical distance between	the floors is
		3.6m. The stair hall measure 2.5m × 5m.	(08 Marks)
	c.	Write a note on Revolving Door with a neat sketch.	(06 Marks)
		Module-5	
9	a.	What are the requirements of plastering?	(06 Marks)
	b.	Explain various causes of Dampness in building.	(06 Marks)

OR Write a note on various defects in plastering. (06 Marks) 10 What are the ill effects of dampness in building? Explain them briefly. (06 Marks) b. Describe the procedure of painting: i) Newly plastered surfaces ii) Iron and steel surfaces. (08 Marks)

Describe the constituents of a paint, mentioning the specific functions of each.