Time: 3 hrs.



18CV34

(08 Marks)

Max. Marks: 100

Third Semester B.E. Degree Examination, July/August 2021 **Building Materials and Construction**

		Note: Answer any FIVE full questions.	
1	0	What are the requirements of good building stones? Explain.	(06 Marks)
1	a. b.	Describe the constituents of good brick earth along with their importance.	(06 Marks)
	c.	Explain the importance of shape, size and texture of coarse aggregates in cemen	t concrete
	0.	making.	(08 Marks)
2	a.		(06 Marks)
	b.	Which are the factors causing deterioration of stone? And write about preservation	of stones.
		Y'	(06 Marks) (08 Marks)
	C.	Describe the construction and working of Bull's Trench Kiln with sketch.	(UO IVIAI KS)
3	a.	Explain the functions of foundation.	(06 Marks)
3	b.	How piles are classified based on function? Explain with sketches.	(06 Marks)
	c.	Draw the plan of one and half brick thick English bond. Mention its salient feature	S.
			(08 Marks)
.4		Differentiate between strip footing and strap footing with sketch.	(06 Marks)
4	a.	Write a note on Ashlar type of stone masonry.	(06 Marks)
	b. c.	Describe the construction and necessity of Grillage foundation with its plan sketch	1.(08 Marks)
_		Draw the sketch of an elementary arch and level its parts.	(06 Marks)
5	a.	Write a note on: i) Stone lintel ii) RCC lintel.	(06 Marks)
	b. c.	What are requirements of a good floor? Draw the sketch of ground floor mark	ole flooring
	C.	with its components.	(08 Marks)
-	0	Explain various modes of failure of an arch with its remedial measures.	(06 Marks)
6	a. b.	Differentiate between sloped roof and flat roof with reference to advantages.	(06 Marks)
	c.	Draw the sketch of King post wooden roof truss (half part) and label its parts.	(08 Marks)
7		Differentiate brick layer's scaffolding over Mason's Scaffolding.	(06 Marks)
7	a. b.	What are the requirements of good stair? Briefly explain the types of stairs.	(06 Marks)
	c.	With a neat sketch, explain i) Bay window ii) Dormer window.	(08 Marks)
8	a.	Explain Raking shore with a neat sketch.	(06 Marks)
0	b.	Write the requirements of locating door and window.	(06 Marks)
	c.	Explain salient features of framed and paneled double shutter door with sketch.	(08 Marks)
9	a.	What are the objects and requirements of good plaster?	(06 Marks)
	b.	Name and explain constituents of oil paint.	(06 Marks)
	c.	New wood surface 11) New plastered surface.	(08 Marks)
10) a.	Explain the defects in plastering.	(06 Marks)
10	b.	- 1 1 1 1 in a mount lime plactering	(06 Marks)
		n i d i d weth de of down proofing	(08 Marks)

c. Briefly explain the methods of damp proofing.