(3	Hours'	١
v	Hours	,

	1	Total	Marks	:	100
--	---	-------	-------	---	-----

N.B.	(2)	 Question no.1 is compulsory. Attempt any four questions from remaining six questions. Assume any data if necessary. 	
1.	(a) (b) (c) (d)	Mention the list of important physical properties of a building material. What are the good qualities of a good building stone? What is meant by seasoning of timber? What are its objects? Explain suitability and economic aspects of framed structured over load bearing structure.	5 5 5 5
2.	(a) (b)	Design suitable stair for a public building the size of the stair hall is 4.25 X 5.25m. The vertical distance between the floors is 3:9 m. Assume suitable data if any. Explain the method of plastering in detail.	10 10
3.	(a) (b) (c) (d)	Compare plastering and painting. Sketch Double joist Timber floor. Compare water proofing and damp proofing Acid test on stones	5 5 5 5
4.	(a) (b)	What are the different type of metals and alloys available and their application. Explain the following:- (i) Plumbing (ii) Acoustics and sound installation	10 10
5.	(a) (b)	What are the different types of paints and varnishes used in building construction? Explain physical properties and manufacturing process for cement and lime.	10 10
6.	(a) (b) (c) (d)	Water absorption test on brick Different grade of cement Dry rubble masonry and ashlar fine masonry Paver blocks	5 5 5 5
7.	(a) (b)	Define glass. List various types of glasses and explain it in brief. (i) What are the effect of improper curing? (ii) Define and explain workability of concrete.	10 10