B.Tech. CIVIL ENGINEERING (BTCLEVI) Term-End Examination

00283

June, 2018

BICE-005: BUILDING TECHNOLOGY - I

Tir	ne : 3	hours Maximum Marks	Maximum Marks : 70		
Note: Attempt any seven questions. All questions of equal marks.			arry		
1.		at are the possible defects in timber ? cribe them with their figures.	10		
2.	(a)	Give the classification of rocks. Discuss them in brief.	5		
	(b)	Discuss the common building stones, with their uses.	5		
3.	Explain Slump Test for workability of concrete, with a neat sketch. Discuss the factors affecting workability.		10		
4.	What are the qualities of glass? Discuss the various varieties of glass and their uses in the building industry.		10		

5.	(a)	Discuss the causes of failure of foundations.	5
	(b)	How are new foundations constructed adjacent to an old existing structure?	5
6.	(a)	Explain the methods which are employed when concrete is to be placed under water.	6
	(b)	What is meant by a framed structure ? What are its advantages?	4
7.	(a)	What are the characteristics of an ideal paint?	
	(b)	Explain the defects which are normally found in the painting work.	
	(c)	What is the function of solvent in paint ? $3+5+2=1$	0
8.	wind	a list of different types of doors and ows. Explain the construction of flush doors, neat sketches.	0
9.	Write	e short notes on any <i>four</i> of the	
	follov	ving: $4 \times 2 \frac{1}{2} = 1$	0
	(a)	Precast Concrete 2	
	(b)	Types of Tiles	
	(c)	Scaffolding	
	(d)	Raft Foundations	
	(e)	Bonds in Brick-work	
	(f)	Curing of Concrete	
BIC	E-005	2 1.00	O