3RD SEM./ CIVIL/ 2022(W)

Th-3 Building Materials & Construction Technology

Fı	ull Marl	ks: 80	Time- 3 Hrs
		Answer any five Questions including Q No.1& 2. Figures in the right hand margin indicates marks.	
1.		Answer All questions.	2 x 10
	a.	What are the geological classification of rocks? Give some examples of sedimentary rocks.	
	b.	What are the functions of alumina and silica in brick earth?	
	c.	Name the compounds formed during the setting action of cement.Mention	n the
		name of the compound to react with water at the earliest, when water is ac with cement.	
	d.	Define water-cement ratio? What is the effect of increasing the water-cen	ment
		ratio on strength of concrete ?	
	e.	What is bulking of sand?	
	f.	What is seasoning of timber?	
	g.	As per National Building Code of India, buildings are classified into how	many
		groups as per occupancy? Name any four.	
	h.	What are the objectives of providing foundations for structures?	
	i.	Differentiate between English bond and Flemish bond.	
	j.	Define these two terms;	
		a) Baluster	
		b) D.P.C.	
2.		Answer Any Six Questions.	6 x 5
	a.	State the qualities of goodbricks.	
	b.	Define workability. Explain the Slump Test in details.	
	c.		
	d.	Explain cast in situ terrazzo flooring.	57
	e.	Mention the qualities of good timber. Explain cast in situ terrazzo flooring. Explain different types of staircase. What are the aims of Energy Management in buildings?	
	f.	What are the aims of Energy Management in buildings?	
	g.	What are the principles of damp proofing?	
3		Breifly explain the steps involved in the manufacture of ordinary Portland	d 10
		cement with a neat flow diagram.	
4		What are the various ingredients of paints? State the functions of each of	them. 10
3201-24 5		Briefly explain the process of manufacture of bricks in details.	10
6		Name various types of Doors. Describe any two types of doors with neat	10
		sketches.	
7		What is green building? Explain in details the features or principles of G Building.	reen 10