

2

Total No of Questions: [8]**SEAT NO. :****[Total No. of Pages : 1]****S.E. 2012 (BUILDING TECHNOLOGY AND MATERIALS)****(Semester - II)****Time: 2 Hours****Max. Marks : 50****Instructions to the candidates:****1) Answers Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.****2) Neat diagrams must be drawn wherever necessary.****3) Figures to the right indicate full marks.****4) Assume suitable data if necessary.**

Q1)	a)	Explain Ashlar and Rubble Stone Masonry.	[6]
	b)	With an appropriate figure any two types of Shallow Foundation and their suitability	[6]
Q2)	a)	With an appropriate figure any two types of Deep Foundation and their suitability.	[6]
	b)	Explain the construction procedure for Reinforced Brick Masonry.	[6]
Q3)	a)	Explain any two types of flooring with their suitability	[6]
	b)	Enlist various types of windows and explain any one in detail.	[6]
Q.4)	a)	Draw sketch of sloping roof truss and show on it principal rafter, common rafter, Ridge cover, Effective span.	[6]
	b)	Draw a neat labeled sketch of panelled door. Show different parts of the same with dimensions.	[6]
Q5)	a)	Enlist various types of plastering and explain Gypsum plaster in detail.	[5]
	b)	Write short notes on Ramps and Escalators.	[8]
Q6)	a)	Write a short note on Painting and Varnishing	[6]
	b)	Explain the following technical terms with sketches (i) Newel Post (ii) Rise (iii) Tread (iv) Nosing (v) Balustrade. (vi) Landing	[7]
Q7)	a)	Which safety measures will be suggested in case of construction of a Skyscraper in crowded area ?	[7]
	b)	Write a note on Bamboo and cork as Eco-friendly materials	[6]
Q8)	a)	Write short notes on : (i) Ceramic products used in construction (ii) Glass used in construction	[8]
	b)	Write a note on strutting and shoring	[5]

