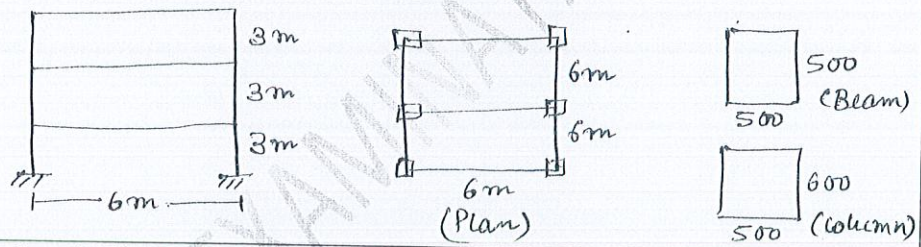
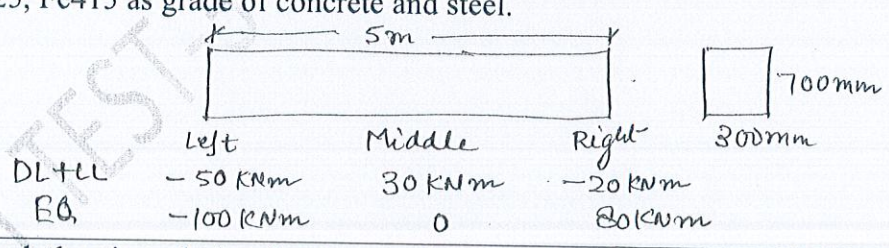


Note: (a) All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

Q.No	Question	Mark
Q1	(i) Define the function of shear wall and its orientation as per the direction of earthquake load. (ii) Discuss different types of RCC shear wall with diagram.	2+2 = 4
Q2	Discuss different steps used in construction of masonry structures for earthquake resistant building.	5
Q3	Find Dead Load, Live Load and Earthquake Load for the given frame. Assume: Thickness of slab = 160mm, M25, Fe415, $A_h = 0.05$	10
		
Q4	Find the longitudinal reinforcement of the given beam with the given moments as per IS: 13920. Assume the load combination as 1.2 (DL+LL+EQ). Assume M25, Fe415 as grade of concrete and steel.	9
		
Q5	Check the given design for strong column and weak beam as per IS:13920. Assume $M_u / (f_{ck} b d^2) = 0.23$ for column.	7
	