PARUL UNIVERSITY FACULTY OF ENGINEERING & TECHNOLOGY B. Tech. Summer 2018 - 19 Examination

B. Tech. Summer 2018 - 19 Examination			
	ester: 7	Date: 08/05/2019	
	ject Code: 03104401	Time: 10:30 am to 01:00 pm	
	ject Name: Estimation, Costing and Valuation	Total Marks: 60	
Instructions:			
1. All questions are compulsory.			
2. Figures to the right indicate full marks.			
3. Make suitable assumptions wherever necessary.			
4. Start new question on new page.			
01	Objective Type Questions - (All are compulsory) (Each of one mark)		(15)
V .1	1. What are the nominal mix proportions for M25 concrete?		(10)
	2. What is the thickness of second coat in case of 20mm thick sand faced co	ement plaster?	
	3. For how many days, cement concrete work of nominal mix proportions 1:1:2 shall be kept well		
	watered?	I I I I I I I I I I I I I I I I I I I	
	4. What is task work?		
	5. Give definition of rate analysis.		
	6. For first class bricks, water absorption after soaking in water for one hou	r, should not be greater	
	than of its weight.	C C	
	(a) One-fifth (b) One- fourth (c) One-third (d) none of these		
	7. The detailed specifications written fairly will help the contractor in quoting correct rates The		
	sentence is		
	(a) Correct (b) False (c) Can't say		
	8. Which of the following factor/s affect the rate analysis?		
	(a) Material cost (b) Labor cost (c) Equipment/Machinery cost (e) All of these		
	9. The dimensions of standard bricks are		
	(a) 19 x 9 x 9 cm (2) 19 x 9 x 9 inch (3) 19 x 9 x 9 mm (4) None of these 10. For 10 m ³ RCC work in beams and columns in 1:2:4, the number of mazdoor required are		
	(a) 18 (b) 28 (c) 38 (d) 48		
	11. Which are the main factors to be considered while preparing detailed es	timate?	
	12. Which is the code for recommendation of labour output constants for bu		
	13. Plastering work is measured in		
	14. The statement of rates, published by any government body for finalizing	g rates, for that particular	
	year is called as		
	15. The capacity of doing work by an artisan or skilled labour, in the form of		
	day is called as thework or out turn work of the labour.		
Q.2	Answer the following questions. (Attempt any three)		(15)
	A) What is the area & volume of the cylinder with a radius of 2m and a height	ght of 6m?	
	B) Discuss in brief objectives/aims of writing specifications.		
	C) Discuss centre line method of estimation with simple example.		
•	D) Describe in brief specifications for RCC work with nominal mix proport		
Q.3	A) Determine the following quantities of items of works by considering dra 1(A) = 11(B)	wings given in Figure	(07)
	1(A) and 1(B) of a residential building–		
	 (1) Earthwork in excavation for foundation (2) P.C.C work (1:4:8) for foundation 		
	(3) Brick Masonry work up to plinth level in cement mortar (1:6) excluding	steps in front and back	
	B) Enumerate types of estimates and discuss any two types in detail.	, steps in none and back.	(08)
	OR		(00)
	B) Calculate the rate analysis with present market rates of materials for 1:4	8 cement concrete in	(08)
	foundation.		(00)
0.4	A) Find out the quantity of materials required for 1 m ³ , 1:1.5:3 finished con	crete.	(07)
•	OR		
	A) An old shop has been purchased by a person at a cost of Rs.22,000/- exc	luding the cost of land.	(07)
	Calculate the amount of sinking fund at 5% interest assuming the future life	÷	
	years and the scrap value of the building as 10% of the cost of purchase.		
	B) Describe in detail factors affecting rate analysis.		(08)

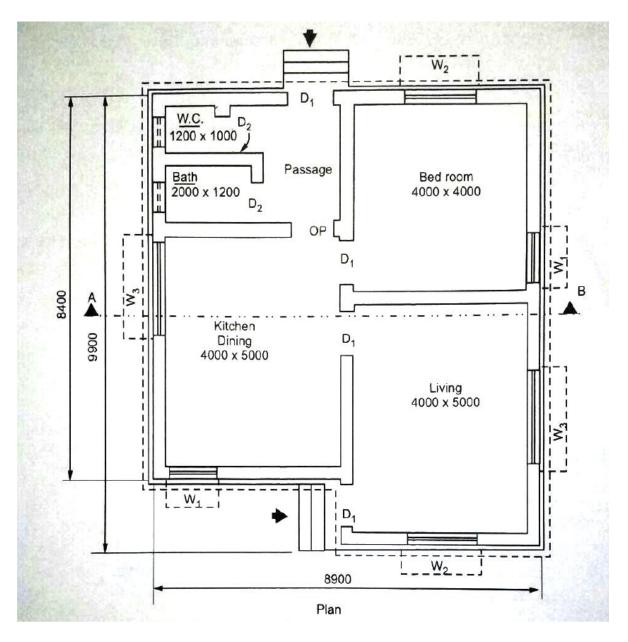


Figure 1 (A) Plan of a residential building

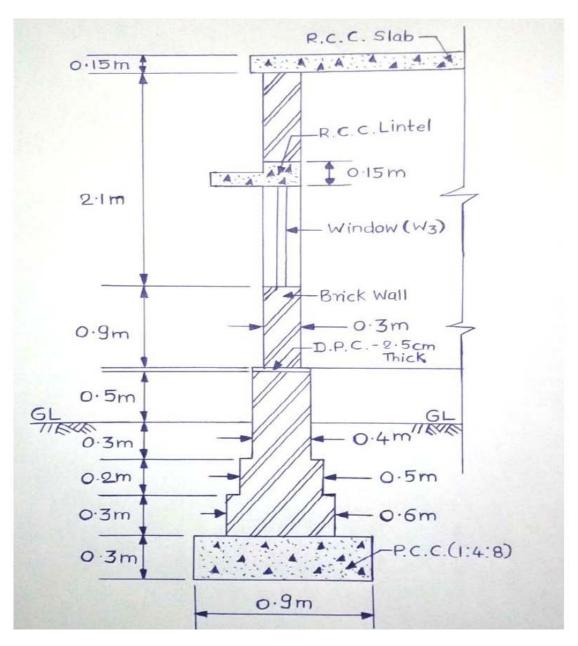


Figure 1 (B) Section of wall along section line AB