		Reg. No. :
		Question Paper Code: 81040
		B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016.
		Seventh Semester
,		Civil Engineering
		CE 6704 — ESTIMATION AND QUANTITY SURVEYING
		(Regulations 2013)
	Time	e: Three hours Maximum: 100 marks
		Answer ALL questions.
		PART A — $(10 \times 2 = 20 \text{ marks})$
	1.	What are the two main methods used to building estimate?
	2.	Define Carpet area and Circulation area.
2 .	3.	What are the different methods to calculate quantity of earthwork for roads?
#	4.	What are the main components of culvert?
	5.	Write down the duties of Quantity Surveyor?
	6.	What is meant by tender?
	7.	How market value is arrived for a property?
	8.	What is book value of the property?
	9.	Define Contract and Agreement.
	10.	What are the points need to be considered in report preparation?

#### PART B - $(5 \times 16 = 80 \text{ marks})$

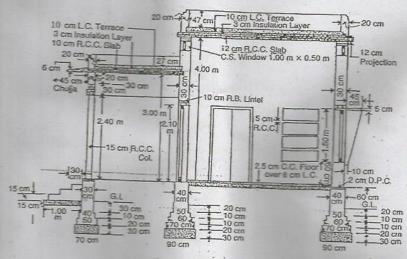
- 11. (a) Estimate in detail the quantities of the following items of work in a residential building shown in the accompanying Figure 1.
  - Earthwork excavation in foundation
- (4)

(ii) Lime Concrete in foundation CM 1:6

- (4)
- (iii) Plastering CM 1:4 for all interior surfaces of walls 12 mm thick. (4)
- (iv) Plastering of Ceiling and Flooring tiles.

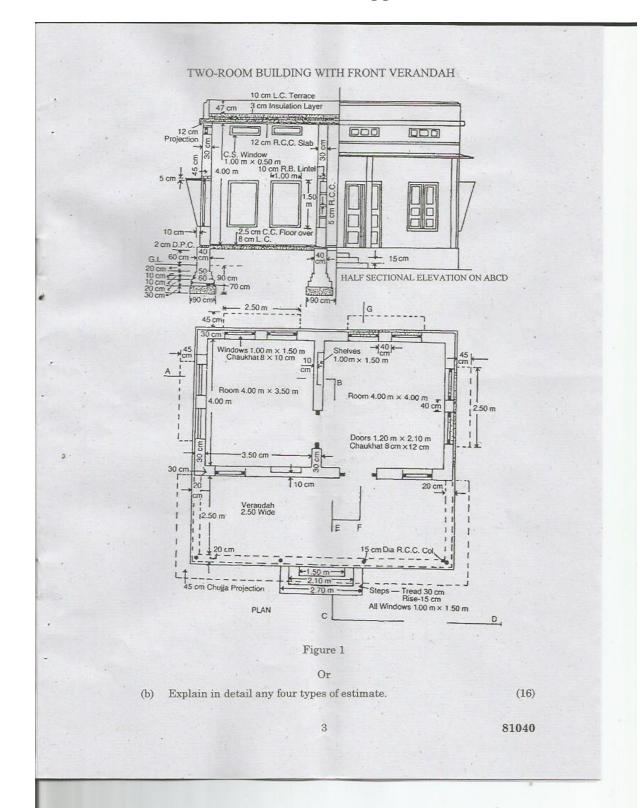
(4)

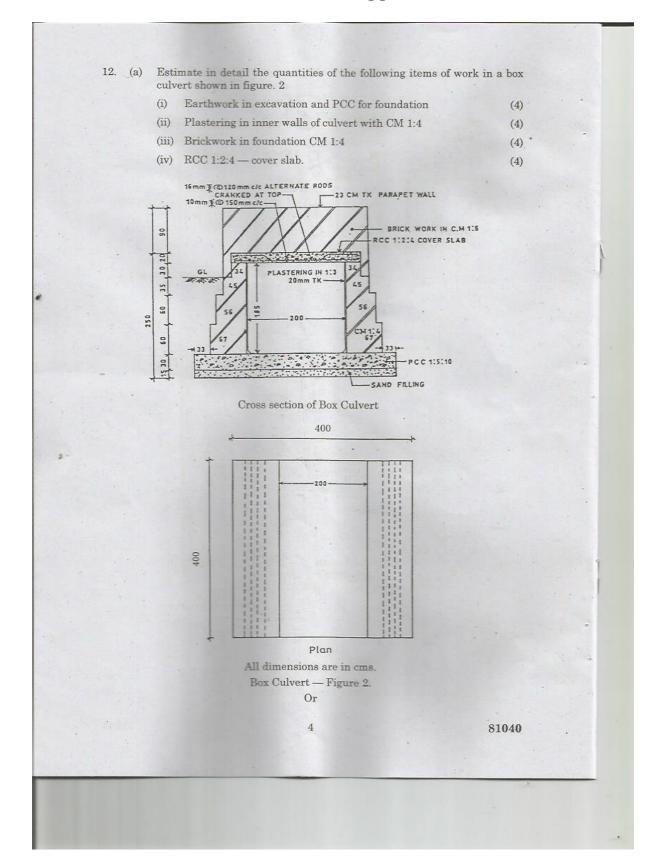
#### CROSS-SECTION OF TWO-ROOMED BUILDING



SECTIONAL ELEVATION ON CEFG

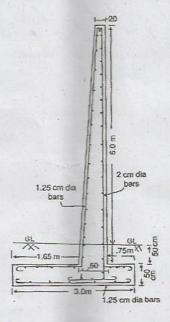
Fig. 1 Two Room Building





(b) Estimate in detail the quantities of the following items of work for a retaining wall of length 30 metre shown in figure 3.

(i)	Earthwork in excavation	(3)



Retaining Wall — Figure 3

13. (a) Using the current schedule of rates for materials and labours prepare data for the following items of work:

(ii) Brickwork in foundation with 20 × 10 × 10 cm bricks with CM 1:6 for 10 m³.

Or

(b) Write down the general specification for a first class building. (16)

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(3)

14. (a) Calculate the standard rent of a building with the following data Cost of land: Rs. 7,00,000, Cost of building: Rs. 16,00,000 Expected life of the building is 65 years. Returns expected 5% on land and 8% on building. Annual repair 1% on the cost of building. Sinking fund on 4% interest basis on 90% of the cost of building. Other outgoing 30% of the return from the building. (b) Mention the various methods of valuation and explain. (16)15. (a) Write report to accompany an estimate for a residential for a executive engineer. Or (b) Prepare a report on estimate for construction of a road on national 81040