**BAR-053** 

## **BACHELOR OF ARCHITECTURE (B.Arch.)**

## **Term-End Examination**

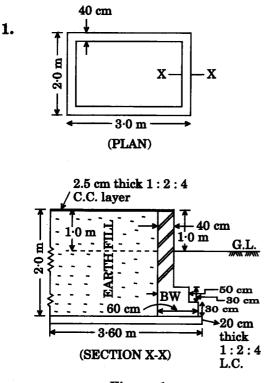
DDI3D2 December, 2017

## **BAR-053 : ESTIMATING AND COSTING**

Time : 3 hours

Maximum Marks: 70

**Note :** Attempt any **five** questions. All questions carry equal marks.





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	Estimate the following items of work :				
	(a)	Earthwork in excavation	2		
	(b)	Earthwork in filling	2		
	(c)	1:2:4 L.C. in foundation	1		
	(d)	2.5 cm thick 1 : 2 : 4 C.C. layer	1		
	(e)	B.W. above G.L.	2		
	( <b>f</b> )	B.W. below G.L. (stepwise)	6		
2.	Ana	Analyse the rates of the following items of work :			
	(a)	$1 \times 2$ m wooden batten door with 4 piece chowkhat (frame)	6		
	(b)	1:2:4 L.C. layer on the roof slab (5 cm thick)	4		
	(c)	Earthwork (complete) in filling	4		
3.	Give the units of measurement for the follow items of work, considering the specification given :				
	(a)	Sanitary fixtures	1		
	(b)	Painting for the given number of coatings to be done	2		
	(c)	2.5 cm thick 1 : 2 : 4 L.C. on roof slab	2		
	(d)	1:2:4 L.C. in foundation	1		
	(e)	Formwork for R.C.C. beam (complete)	1		
	( <b>f</b> )	Earthwork in cutting in hard soil	1		
	( <b>g</b> )	R.C.C. work in a lintel	1		
		<b>`</b>			

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	(h)	R.C.C. work in a stair from ground floor to first floor (complete)	, 1
	(i)	230 mm thick B.W. in ground floor	- 1
	• •	115 mm thick B.W. in second floor	1
	(j)		_
	( <b>k</b> )	Formwork for an R.C.C. slab (give reasons)	2
4.	appr	uss the provision for administrative roval, technical sanction, and procedure for iding funds for any given work.	14
5.		w and fill out (for the sake of illustration), following :	
	(a)	Indent of stores	5
	(b)	Muster roll	5
	(c)	Measurement book page	4
6.	cent	uss in detail the short-wall/long-wall, and re line methods to estimate items of work in ilding.	14
7.	Give work	e the general specifications for the following cs:	
	(a)	Laying of 1 : 2 : 4 L.C. in foundations	4
	(b)	Painting of woodwork that is already once painted a few years back	6
	(c)	Constructing ashlar stone masonry	4
BAR	-053	3 P	. <b>T.O</b> .

8. Write short notes on any *four* of the following:  $4 \times 3\frac{1}{2} = 14$ 

(a) Tender Notice

(b) Item Rate Contract

(c) Plinth Area Rates

(d) Stock Account

(e) Technical Report

(f) Contingencies