BACHELOR OF ARCHITECTURE (B.ARCH)

Term-End Examination June, 2014

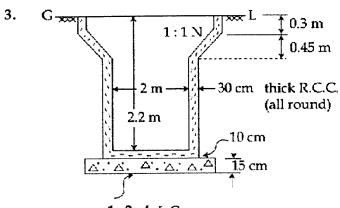
BAR-053: ESTIMATING AND COSTING

Time: 3 hours Maximum Marks: 70

Note: Solve any five questions, all questions carrying equal marks.

- 1. (a) Earthwork in excavation and filling is to be estimated on the basis of a plan and section of a small building of one room. Explain how you will figure out the estimate by centre line and long-short wall methods respectively. Give sketches.
 - (b) How do you estimate the earth work in excavation and filling in (a) above? (Take your own assumptions of the room dimensions and the section of the foundation)
- **2.** Explain the term "estimation" and describe estimation in the context of the following:
 - (a) Plinth area rates of buildings for various classes.
 - (b) Types of approximate estimates and the need of carrying approximate estimate.
 - (c) How do you prepare a detailed estimate for R.C.C. work in roof slab.

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1:2:4 L.C.

(Section of an R.C.C. Silo, circular in plan)

An underground silo (1 : 2 : 4 R.C.C.) is shown in section. Compute the following items of work :

- (a) Earthwork in excavation
 (b) 1:2:4 L.C.
 (c) 1:2:4 R.C.C involved.
 (d) Water-cement coat inside the silo.
- 4. Workout the analysis of rates for the following items of work:
 - (a) Earthwork in filling in a road embankment5(b) R.C.C. (1:2:4) in a slab4
 - (c) B.W. in super structure in C.M (1:4) 5
- 5. (a) What do you understand by 5 specifications? Give detailed specifications for excavating the foundation trench of a building.

	(b)		the units of measurement for the wing items: Painting 3-coats on a wall and ceiling Floor tiling	9
		(iii)	$\frac{1}{2}$ -brick thick partition wall	
		(v) (vi)	2.5 cm thick 1 : 2 : 4 L.C. in flooring 40 mm thick pannelled doors Door and window frames Kota stone flooring in the front compound.	
			Door and window fixtures.	
		(ix)	Glazing of doors and windows	
6.	Explain the following terms:			
	(a)	•		
	(b)	Deposit work		
	(c)	Earn	est money	3
	(d)	Impr	est	3
7.	(a) (b) (c) (d) (e)	Payment on account Issuing indents of stores Maintaining a master roll		
8.	(a) (b)	Type Item Acqu	et notes on any three of the following : es of flooring -rate tender uittance Roll k account	14