		TRARY CALL	
USN		18	09ARC6.6
	D Anch D	Dogree Examination, Dec.2018	3/Jan.2019

Sixth Semester B.Arch. Degree Examination **Estimating and Costing**

Time: 3 hrs.

Note: 1. Answer Q.No.1 compulsory and any FOUR from Q.No.2 to Q.No.8.

2. Follow written dimensions only.

3. Missing data if any may be suitably assumed.

		5. Missing data if any may be seemed,	
1		Fig.Q.1 shows the details of a small residential unit. Prepare a detailed estimate	te for below
•		mentioned items of work by "Centre-Line Method".	
	a.	Centre-line calculation details.	(10 Marks)
		Earth work in excavation for foundation @ Rs.200 per cu M.	(10 Marks)
	b.	PGG D. 1 C Com. J. A. C (1.4.9) @ Pg. 2250 per Cu M	(10 Marks)
	c.	PCC Bed for foundation (1:4:8) @ Rs.3250 per Cu M.	Cu M.
	d.	Coursed Rubble Masonry in CM (1:6) for foundation and Plinth @ Rs.3600 per	(10 Marks)
			(2001
2		Write detailed technical specification for:	
_	a.	Earthwork in excavation.	(05 Marks)
	b.	DPC 1:3:6.	(05 Marks)
	c.	Glazed tiles in skirting and Dado.	(05 Marks)
	C.	Glazed thes in skitting and 2, and	
3		Write short notes on:	
	a.	Schedule of Rates.	(05 Marks)
	b.	Work-charged establishment.	(05 Marks)
	c.	Contingencies.	(05 Marks)

Differentiate between the following:

Revised estimate and supplementary estimate. (05 Marks)

Square metre method estimate and cubic metre method estimate. (05 Marks)

Security deposit and retention money. (05 Marks)

Define rate analysis and mention its purposes. 5 (05 Marks)

Define the term contract. What are the essential requirements of a valid contract? (05 Marks)

What is tender? Explain different classifications of Tender. (05 Marks)

Calculate the quantities of earthwork for 300m length for a portion of road in a uniform 6 ground. The height of the banks at two ends being 1.0 and 1.3. The formation width is 6.0m and side slopes 2:1 (Horizontal Vertical). Assume that there is no transverse slope, Calculate the quantity using Mid-Section method, mean area method and Prismoidal methods.

(15 Marks)

Fig.Q.7 shows the details of RCC column. Calculate the quantity of concrete and steel. 7

(15 Marks)

8 Fig.Q.8 shows the details of septic tank calculate the quantities for:

(05 Marks)

a. Earthwork in excavation.

(05 Marks)

b. PCC Bed in 1:4:8.

(05 Marks)

c. First class brickwork in CM (1:6).

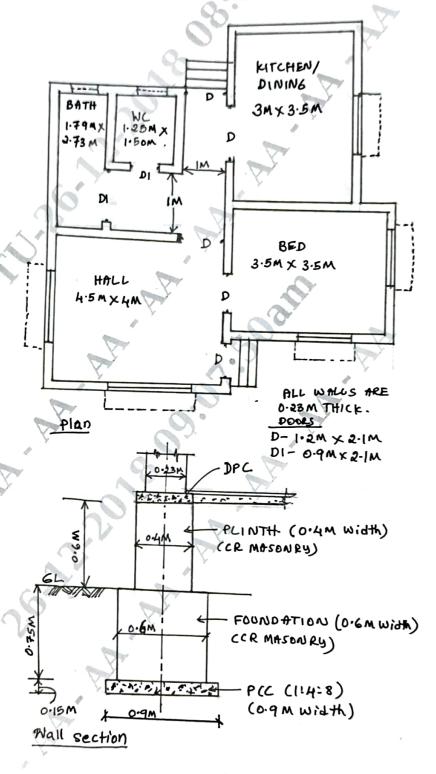
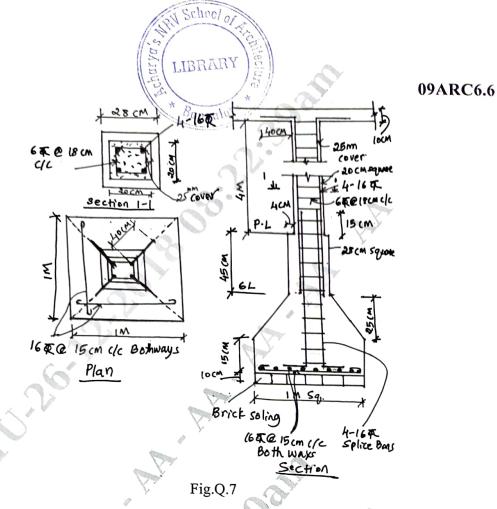


Fig.Q.1



MH COVOY 10 CM RCC slab 1.08M 41511 perforations 1.5M so ca wall. 0-5M IPS Paving 40 cm wall 6.5M 80 50 cm wall PCC (1:4:8) 8.4M A.A section MH COVEY. Bomm dia vent pipe 30 cm wall. septic 20 cm wall with tertorations Tank. 8.EM g 杂 7.6M Plan

Fig.Q.8

***** 3 of 3