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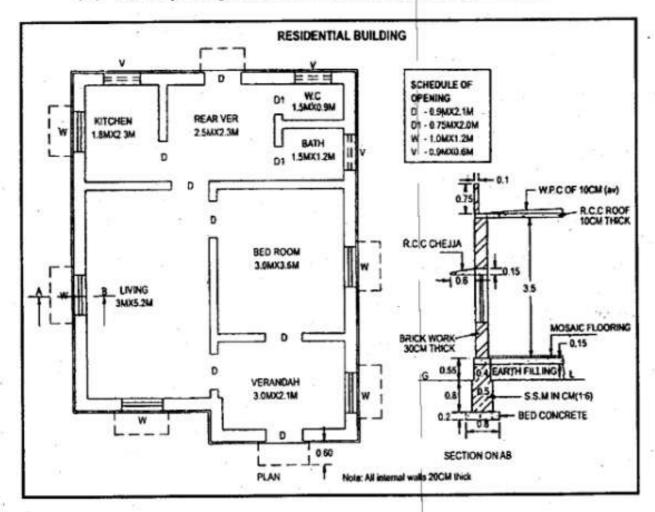
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V Semester Diploma Examination, Nov./Dec.-2018

ESTIMATING & COSTING

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				ing Arraya	Max. Marks : 10	JU
Not	e:	(i)	Missing data, if any may be	suitably assumed.		
		(ii)	Answer all the parts.			
				PART – A	**	
I.	An	swer a	any one from the following	1		
	(a)	Wh	at is an Estimate? What are	its types ? Explain an	y one in briefly.	10
	(b)		plain the following:	8.	20 - 그리	10
		(i)	Schedule of rates			
		(ii)	Work charged Establishm	ent		
			S			
2.	Wri	te the	detailed specification for ar	y and of the fallowin		
2016	(a)				Pro International Control of the Con	_
	0237		class brick work in C.M. 1:			0
70	(b)	Pias	stering in C.M. 1:6 & wood	work for door & win	dow frames.	0
3.			ate analysis for any one of t			
	(a)		hwork excavation & filling.			0
	(b)		ified floor tiles of size 60 c	m × 60 cm laid on 20	mm thick cement mortar	
		1:4		0	1	0
		- 1			*	
			PA	RT – B		
4.	(a)	List	the points to be kept in mi	nd for opening deduc	tion while doing external	Þ
		plast	tering.			5 .
	(b)	Expl	lain the method of taking	out the quantities by	long wall & short wall	
		meth				5
				1 of 4		

- (c) Prepare detailed and abstract estimate for the following items given below by any method for the building shown in Fig. 1. $10 \times 4 = 4$
 - (i) S.S.M. in C.M. 1:6 @ ₹ 3890 / cu.m.
 - (ii) First class brick work in C.M. 1: 6 for super structure @ ₹ 3680/cu.m.
 - (iii) R.C.C. works 1 : 2 : 4 for slab, assume steel @ 1.5% R.C.C. works @ ₹ 4214/cu.m. & Steel @ ₹ 45000/MT.
 - (iv) Enamel painting to doors, windows and ventilators @ ₹ 65/sq.m.



All Dimensions are in metre.

Fig. 1

PART - C

 Prepare a detailed estimate for earthwork for a portion of a road from the following data:

Rate of earthwork in excavation ₹ 120 / cu.m. & banking is ₹ 90 / cu.m.

R.L. of formation	115	115		upward gradient 1 in 200						Downward gradient of 1 in 400.				
R.L. of ground	114.5	114.75	115.25	115.20	116.10	ия	117.85							
Distance in 'm'	0	100	200	300		500	1000	700	-	900	_	1100		

The width of formation is 10 m and side slopes 11/2: 1 in cutting and 2: 1 in banking. 20

OR

Estimate the cost for the following items of the work for the concrete road measuring 4 m wide & 1 km length as shown in Fig. 2.

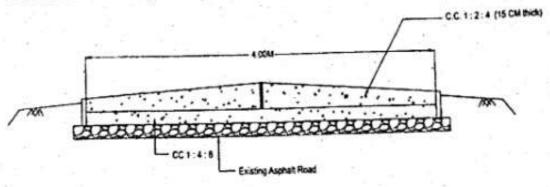


Fig. 2

- (i) Cement concrete 1: 4: 8 using 40 mm size granite filling for depression filling & levelling the existing asphalt road (Take 0.25 m³ for 100 sq. m.) The rate ₹ 2800/m³.
- (ii) Cement concrete 1: 2: 4 using 12.5 mm size & 25 to 40 mm size in ratio of 1: 2 for wearing coat at rate ₹ 3900/m³.
- (iii) Expansion joints filler with fiber coats for longitudinal & transverse joints 12 mm wide and 10 cm deep (Take the transverse joints at 10 m apart) at rate ₹ 30/m.