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Diploma in Civil Engineering

Term-End Examination : (i)

June, 2007 . m. 40 (8)

BCE-034 : ESTIMATING & QUANTITY SURVEYING-I

Time: 2 hours

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Note: Attempt any **five** questions. Question number 1 is **compulsory**. Assume suitable data wherever required.

1. Choose the correct answer from the given alternatives.

 $7 \times 2 = 14$

(a) For calculating earthwork in road embankment,
'Prismoidal Formula' is

(i)
$$V = \frac{1}{16} (A_1 + 4 A_m + A_2)$$

(ii)
$$V = \frac{l^2}{8} (A_1 + 4 A_m + A_2^2)^{\frac{1}{2}} (A_1 + A_2^2)^{\frac{1}{2}}$$

(iii)
$$V = \frac{1}{6} (A_1 + 4 A_m + A_2)$$

(iv)
$$V = \frac{l}{6} (A_1 + A_2)$$



(b)	mixe	laying 25 mm thick cement concrete 1:2:4 ed with water-proofing compound as D.P.C., the of measurement is		
	(i)	sq. mp. a. salvas gald. Karagi-karas sali.		
	(ii)	cu. m		
	(iii)	running metre		
	(iv)	each so so the factor of the solution of the s		
(c)	In h	alf brick masonry wall, the type of bond/layer is		
	(i)	Flemish		
	(ii)	Stretcher		
The sales	(iii)	to selection to the constant of the selection of the sele		
	(i∨)	Harrying		
(d)	For excavation of $1.5~\text{m}$ deep foundation trench of a building, $1.5~\text{m}$ refers to			
	(i)	Lead		
	(ii) (iii)	Lead and lift Lift		
	(iv)	None of the above		

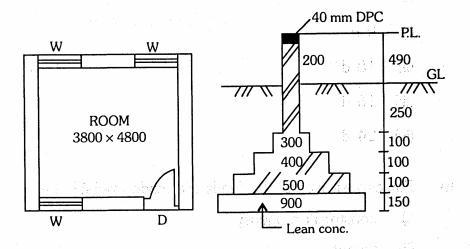


	(i)	1970 min 1985.
2 (A	(ii)	18 d
i in	(iii)	16 d
	(iv)	24 d 2003.
· ·		
(f)	For	deposit works, the funds are made available by
	(i)	construction agency
	(ii)	tenant
	(iii)	executing agency
	(iv)	client agency
	111	to the entire to the control of the
(g)	'Mea	asurement Book' is used for
	(i)	recording measurements of the executed work
		for making payment to contractor
	(ii)	recording site instructions
	(iii)	recording rough work
	(iv)	recording dimensions for estimation
	5 , 11	
Calcu	ılate	the following quantities from the given sketch :
	, lvej	2×7=
(i)	Eartl	n work in excavation for foundation trench

(e) Extra length for each hook in reinforcement is taken

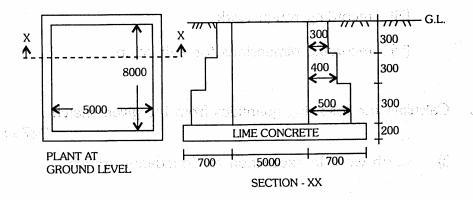


(ii) Brick work in foundation and plinth



Note: All dimensions are in mm.

- 3. Compute the quantity of the following items with the help of sketch of an underground tank given below: $2\times7=14$
 - (i) Lime concrete in foundation bed
 - (ii) Earth work in excavation





- 4. Prepare analysis of rates for any two of the following items, assuming your own rates: $2\times7=14$
 - (i) Lime concrete for foundation and under floors with 4 cm gauge brick ballast, white lime and surkhi in 100:16:32 proportion.
 - (ii) Cement concrete for foundation and under floors with 4 cm gauge brick ballast, fine sand and cement in 10:5:1 proportion.
 - (iii) First class brick work in 1 : 6 cement sand mortar in foundation and plinth.
- **5.** Differentiate between any **four** of the following: $4 \times 3\frac{1}{2} = 14$
 - (i) Random rubble and Ashlar masonry of stone work
 - (ii) White washing and Colour washing
 - (iii) Glazed doors and Wire gauzed doors
 - (iv) Special repairs and Maintenance and repair works
 - (v) Item rate contract and Percentage rate contract
 - (vi) Muster Roll and Measurement Book
- **6.** Write specifications for any *two* of the following: $2 \times 7 = 14$
 - (i) Dry Rubble Masonry
 - (ii) Half brick masonry with first class bricks
 - (iii) Earth work in filling for road work
 - (iv) Cement plastering on brick walls

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- 7. Write short notes on any **four** of the following $4 \times 3\frac{1}{2} = 14$
 - (i) Coursed Rubble Masonry in stone work
 - dies spoet spoet has grouphquet soit derrince partition.

 (ii) Damp-Proof Course (DPC)

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 - (iii) Collapsible Gates and Shutters, SE OI . OOI
 - Cement concrete for formation paragraphic (iv) of Distempering and formation of the control of t
 - (v) Factors affecting cost of work out the law
 - (vi) Administrative Approval (or sanction) of proposal

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