RETEST EXAMINATION - 2019

Semester: 6th (Old)

Subject Code: Cv-601

ESTIMATING - II

Full Marks -70

Time - Three hours

The figures in the margin indicate full marks for the questions.

Answer both Parts of the question paper.

PART - A

Marks - 25

1. Choose the correct answer from the given options : $1 \times 10=10$

- (i) The expected out-turn of brick work in super structure in ground floor is
 - (a) 1.25 cum
- (b) 1.5 cum
- (c) 1.10 cum
- (d) 2.1 cum

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drawn in	(ii) For Muster
	roll,
	the
	wages
	of
	labourers are
	are

- (a) Form-22
- (b) Form-25
- (c) Form-21
- (d) Form-25A
- (iii) Detailed specification of a work is required
- (a) Describe the quality and quantity of materials
- (b) Specify the workmanship and method of doing work
- (c) Specify the equipments, tools and plants CENTRAL INSTITUTE &
- (d) All of the above
- (iv) The proposal for administrative approval should be accompanied with the following:
- (a) Preliminary report and rationale
- (b) Plan
- (c) Preliminary estimate
- (d) All of the above

- (v) Which of the following does not come under general overheads?
- (a) Salaries of office staff
- (b) Office telephone bills
- (c) Travelling
- (d) None of the above
- (vi) The entries made in a MB should be
- (a) Reliable
- (b) Clear and self-explanatory
- (c) Avoid of double entry

TECHNOLOG

- (d) All of the above
- (vii) The contractor has to be deposit his tender. the estimated cost as earnest money along with
- (a) 1%
- (b) 2%
- (c) 3%
- (d) 4%

(viii)How much of water charge is provided in analysis of rates?

- (a) 1%
- (b) 2%
- (c) 10%
- (d) 1.5%

(3)

(ii		Ð	2. Fil					(X)			(ix)
) Lift	quantity		(d)		© .	9	(a) T	Sele	(c)	(a) ;	The sqm
(ii) Lift is measured from	tity.	The number of sections must be to apply Prismoidal Formula for calculating earth	(d) None of the above. Fill up the gap with appropriate word/words: 1×10=	concrete, line aggregate and coarse aggregate should be mixed before mixing cement.	length-wise direction. In case of hand mixing of cement *	The end lap in case of fixing of CGL sheets should be at least 30 cm in the	The slope of cutting is generally more than slope of banking.	(x) Select the correct statement:	(c) 3.58 m ³	(a) 2.5 m ³	(ix) The dry volume of concrete required for 100 sqm of 2.5 cm thick 1:2:4 DPC is
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from _		ctions 1	bove. ppropri	should be mixed b	rection hand	in case	cutting	statem	(b)	(ф)	concre
	1 100	must b	ate wo	regate nixed t	mixing	of fir least 3	is ge	ent:	(d) 3.85 m ³	(b) 3.5 m ³	ete requ
		e	rd/wor 1×	and coarse before mixing	. Of	xing o	nerally		P.		nired f
		to g earth	words: 1×10=10	mixing	cement CEN	in the	more				or 100 is
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(iii)	Θ	Ansv	(viii)	(vii) I	ret o	(vi) I		3	(iv) I) /(III)
(ii) What	(i) What	Answer in)The extra length requare reinforcement bar is of bar).	Expens	banking.	(vi) In economical	cm × of 10	The nu	(iv) Filling	accurate.	Among the earthwork,
is con	is out-	single	xtra le orcem	ses in measu	à don E	momic	7.6 cm sqm is	mber	is the and	Ċ	the tork, t
is contract agreement?	turn v	single sentence each :	ngth r ent ba	res con			requi	of bric			three n
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ent?	is out-turn work of a labour?	ich :	d for	abour ider th		section	or a he	size 22	of he		s for o
	our?		two ho	welfa e cate		sectional area	olf bric	2.9 cm	ight b		calcula nod is
		1×5=5	(viii)The extra length required for two hooks of a reinforcement bar isd (d, diameter of bar).	(vii) Expenses incurred for labour welfare and safety measures comes under the category of	to secuonal area or	rea of	7.6 cm required for a half brick wall sqm is	The number of bricks of size 22.9 cm × 11.4	difference of height between		(iii) Among the three methods for calculation of earthwork, the method is most
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- (iii) What is balancing depth ?
- (iv) What is analysis of rate?
- (v) What is muster roll?

PART - B

Marks - 45

Answer any three questions

- (a) Write the detailed specification of the following on any two: CENTRALLIBRARY
 - (i) Earthwork in excavation
- (ii) Wood work in door shutters
- (iii) Reinforced cement concrete

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- (b) Analyse the rate of the following on any two:
- (i) First class brick mortar (1:4) work in cement
- (ii) 2.5 cm thick DPC (1:2:4)
- (iii) White washing 2 coats on a coat to new plaster.

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- (a) Find out the economic depth of a channel from the following data:
- side slope in banking = 2:1, Top width of = 0.40m, Side slope in cutting = 1.5:1 and bank = 2.0m.501.00m, Bed level = 500.00m, Free board Bed width = 4.0m, Full supply level =
- (b) A RCC rectangular beam of size 20 cm × 30 cm of reinforcement. ends. Stirrups are 6 mm in dia and spaced at are 10 mm in dia, straigth and L hooked at L hooked at ends. At top, two outer hanger bars 15 cm centre to centre. Estimate the quantity bent up at 45° at appropriate place with bars straight and L hooked and the inner bar Steel bars 3 numbers. 16 mm dia, two outer with 4.0m overall length is reinforced with Tor

An irrigation canal has the following details: at 50m interval are as under: bed = 1 in 5000, Ground levels at consecutive stations bank from bed = 2.60m, Longitudinal slope of the width of right bank = 1.5m, Side slopes in cutting = 1.5:1, Side slopes in banking = 2:1, Height of Bed width = 4m, Top width of left bank = 3m, Top

99 80	4	Station GL of RL
100.41	100.2	GL of RL
2	1	Station

7. Estimate the quantity of earthwork from the following data:

Road width = 10m, Side slopes = 1.5:1 in cutting and 2:1 in banking, Length of chain is 30m.

Chainage	20	21	22	23
RL of GL	71.20	71.25	70.90	71.25
Chainage	24	25	26	27
RL of GL	70.80	70.45	70.20	70.35
Chainage	28	29	30	
RL of GL	69.10	69.45	69.70	1

Formation level = 70.00m, Upward gradient 1 in 200.

