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Ansv	wer Questic Tr	5 <sup>th</sup> on No ne fig	<sup>°</sup> Ser Q 0.1 aı ures	neste uant nd 2 in th	er Re ity S BF T Ma Q whic ne rig	egula urvey RANC ime: ax Ma .COE h are Jht ha	r Exa /ing CH: C 3 Ho arks: DE: B e con and i	amina & Es IVIL ours 100 254 npuls marg	ation tima sory in in	and and dicat	7-18 any f	our frourfro	om the	PCI5D002
Q1 a) b) c) d f) g h)	Answer f In long a centre to i. Breadth iii. half b The dam One bag Pick up th i. Wall thi Earnest r work. Brick wal In analys	the fo nd sho centre n of the readth p proc of cen he iten icknes money Is are is of ra prk in p	e dist e dist e wal n of w of cou ment m of v ss ii. / dep meas ates, partiti	ng qu all me ance ll vall on irse (l weigh work r Roor osited sured the p on is	uestic ethod betwo n each D.P.C not inc n area d with in sq rovisi meas	ons: of es een th ii. C side cluded a ii tende . m if on of sured	stimat ne wa ne fo neasu d in th ii. Vei d in th ii. Vei the th watei in	ion, ti lls an ourth b iv. No ured in reanda me plir randa 	he ler d oread one of n of th ess of ges =	ngth of v f thes ea es a iv e esti the v	of Ion wall o e. timate . Cou imate vall is	g wall i n each e urtyard i d cost c	s the side area of the	(2 x 10)
i) Q2 aj b cj d f) g h i) j)	<ul> <li>The form</li> <li>Three tim</li> <li>Answer f</li> <li>What are</li> <li>What are</li> <li>How are</li> <li>What are</li> <li>What are</li> <li>What are</li> <li>What are</li> <li>What is li</li> <li>What is to</li> <li>What are</li> </ul>	ula for the esti the fo the p the da genera the p you m the va quidat NIT? he diff the e	r Tota matic urpos ata re al spe urpos nean l ariou ted d	al floa on is u ng qu ses of equire ecifica ses of by ove s met amag ce be in a r	t is used i used i appred for ations f rate erhea hods e? tweer hetwo	n ons: oxima prepa a differ analy d cha to cal to cal n Floa rk?	ate es aration rent fr sis ? rges? culate t and	timate n of a rom d e the Slack	e? n esti etaile quant	mate d spe tity of	? ecifica earth	tions? work?		(2 x 10)
Q3 aj bj cj	Calculate G.L., usir Excavatio Cement Brick wo	e the c ng long on for concre ork in c	quant g wal found ete (1 ceme	ities of I shor dation I :16:1 nt mo	of the t wall is 8) in rtar (*	follov meth found 1:6) in	wing od. ation:	items s datioi	from	the s d plin	given th	fig.1,	up to	(15)
Q4 aj b c	Estimate Earthwor Cement o I class br	the fo k in ex concre ick wc	ollowii xcava ete in ork in	ng qu ation found 1:4 c	antitie dation emen	es of a	a culv tar	ert as	shov	vn in	Fig 2			(15)

(5)

- Q5 a) Write the detailed specification for following items : (10)
  - i. Reinforced cement concrete
    - Mosaic or terrazzo floor
  - b) What is specification? Write General Specification of a first class building. (5)
- Q6 Prepare a detailed estimate for earthwork for a portion of a road from the (15) following data:-

Dist. In m	0	100	200	300	400	500	600	700	800	900	1000	1100	1200
R.L of ground	114.50	114.75	115.25	115.20	116.10	116.85	118.00	118.25	118.10	117.80	117.75	117.90	119.50

R.L of formation- 115

ii.

Upward Gradient 1 in 200 up to 600m Formation road is 100metre side slope 2:1 in banking and 1.5:1 in cutting.

- **Q7** a) Work out the rate analysis of following two item: (10)
  - i. First class brick work in cement mortar in 1:6 in super structure
     ii. RCC work with CC 1:1.5:3 proportion
  - b) Find out the rate analysis of cement concrete with cement, coarse sand (5) and 4cm gauge stone basalt 1:2:4 proportion.
- **Q8** a) Calculate all activity times of the following CPM network and hence obtain (10) critical path and project duration(in days).



- b) Discuss about all the steps in evaluation of a tender? (5)
- **Q9 a)** Draw a PERT network for the followings and find expected mean time, (10) variance and standard deviation of the project.

Activity	<u>Three time Estimates (days)</u>
1-2	6-9-18
1-3	5-8-17
2-4	4-7-22
2-5	4-7-10
3-4	4-7-16
3-5	2-5-8
4-5	4-10-22
What are the difference between PERT a	and CPM?

b)



Fig-1



Fig-2