Regi	strat	tion No.:	
Tota	l nur	mber of printed pages – 4  B. Ted	
		PECI 540	)5
	EC:	Seventh Semester Back Examination – 2014	
	ES	TIMATION, COSTING AND PROFESSIONAL PRACTICE	
		BRANCH (S): MM, MME	
		QUESTION CODE: L 205	
		Full Marks - 70	
		Time: 3 Hours	
Α	nswe	er Question No. 1 which is compulsory and any five from the rest.  The figures in the right-hand margin indicate marks.	
1.	Ans	wer the following questions:	10
	(a)	What is plinth area estimate?	
	(b)	What is the unit for earth filling in foundation and sun dried brick work ?	
	(c)	What are the advantages of centre line method of building estimate?	
	(d)	Define overhead charges.	
	(e)	What are the purposes of rate analysis?	
	(f)	What are the materials required for form work?	
	(g)	Write two advantages of open specification?	
	(h)	Find the no. of bricks in 10 cum brick masonry in cement mortar 1:6.	
	(i)	If an activity has its optimistic, most likely and pessimistic time as 3, 4 and respectively, then its expected time and variance are respectively.	18
	(j)	Define independent float.	
2.	Estin	mate the quantities of the following items of work for a building as shown 1:	in
	(a)	Earth work in excavation in foundations.	5

(b) First class brick work (1:6) in cement mortar in super structure.

	7//	
3.	Estir	ate the following quantities of a pipe culvert as shown in Fig. 2:
	(a)	Earth work in excavation in foundations. 7
	(b)	Cement concrete (1:3:6) in foundations.
4.	(a)	Draw the network of a project having seven activities. Activities A, B and C
		un concurrently. Activities predecessor relationships are as follows :
		Activity Immediate Predecessor
		D A
		E B
		F
		Activity G is the last operation of the project, and is also immediate
		successor to D, E and F. 7
	(b)	Differentiate between CPM and PERT.
5.	(a)	Find out the quantity of cement and sand required for one square meter of
		cement plaster, (1:6), 1.25 cm thick.
	(b)	Find out the rate analysis per cum of cement concrete 1:4:8 with graded
		brick ballast 40 mm down in foundation.
6.	(a)	Outline the detailed specification for lime concrete in roof terracing. 5
	(b)	Write the detailed specification for DPC of cement concrete 1:2:4.
7.	(a)	Write network rules. Explain Fulkerson's rule of node numbering.
	(b)	What do you understand by a 'dummy'? What are its uses?
8.	Wri	short notes on any <b>two</b> of the following: $5 \times 2$
	(a)	Long wall and short wall method of building estimate
	(b)	General specifications of a first class building

(c) Prime cost

(d) Item rate contract.

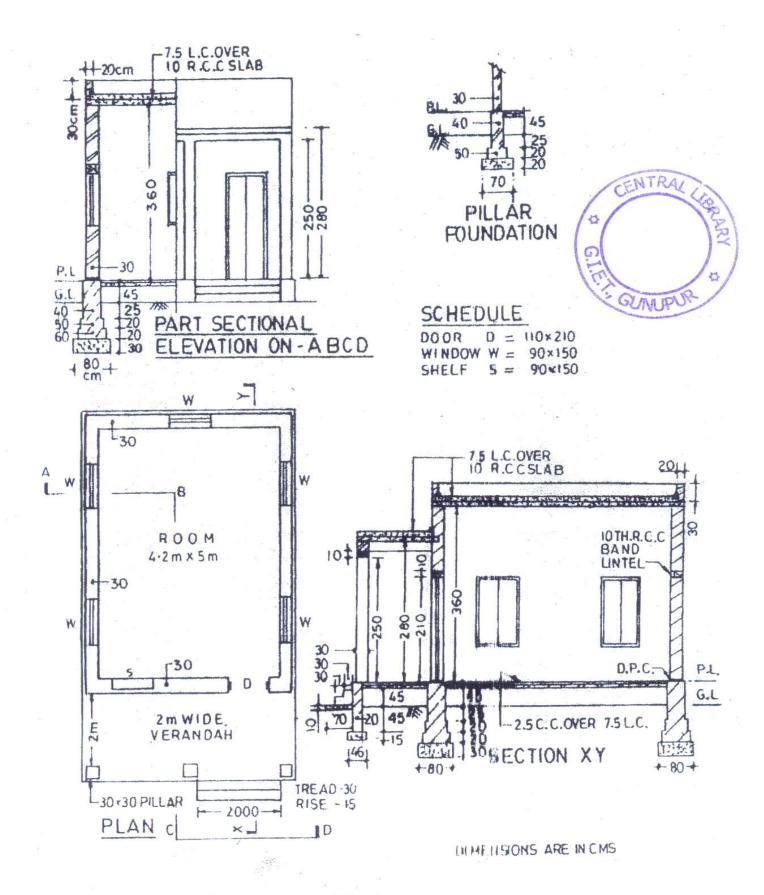
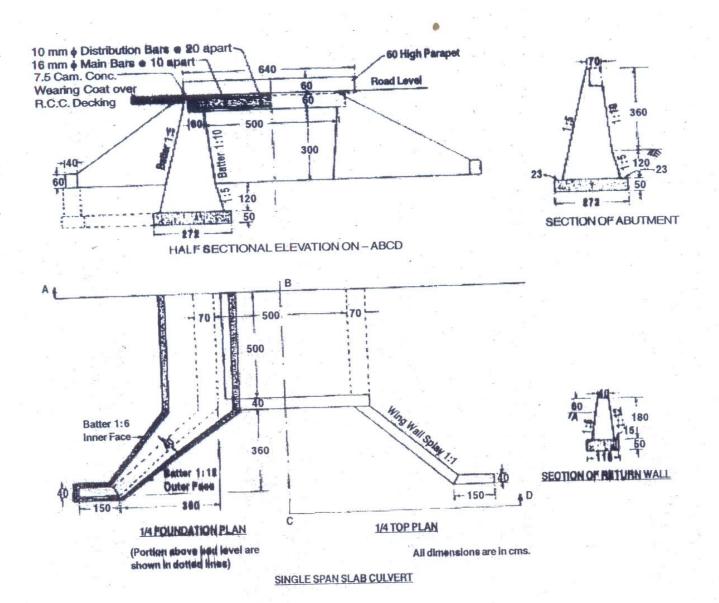


Fig. 1



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Fig. 2