Re	gistra	ation No.:	
Tot	al nui	mber of printed pages – 4	B. Tech
	PECI 5405		
		Seventh Semester (Special) Examination – 20	13
	ES	STIMATION, COSTING AND PROFESSIONAL PRACT	ICE
		BRANCH CODE : CIVIL	
		QUESTION CODE: D 477	
		Full Marks - 70	
		Time: 3 Hours	a
,	Answ	rer Question No. 1 which is compulsory and any five from the The figures in the right-hand margin indicate marks.	he rest.
1.	Ans	swer the following questions:	2×10
	(a)	What is plinth area estimate?	
	(b)	What is the unit for earth work in hard soil and pre cast jail worl	</td
	(c)	What are the data required for preparation of an estimate?	
	(d)	Define 'head event' and 'tail event'.	
	(e)	Differentiate between general over head and job over head.	
	(f)	What is the necessity of specification	
	(g)	What are the disadvantages of open specification.	
	(h)	What do you mean by operating cost of an equipment?	
	(i)	What is the objective of project management?	
	(j)	State various resources of a project.	
2.	Esti	mate the quantities of the following items of work for a building a	s shown in
	(a)	Earth work in excavation in foundations	5

(b) First class brick work (1:4) in cement mortar

- 3. Estimate the quantities of following items of work for Culvert as shown in Fig 2.
 - (a) Earthwork in excavation in foundation

5

(b) Cement concrete (1:3:6) in foundation

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 (a) A project consists of eight events having predecessor relationships as under, Construct the network.

Event	Immediate predecessor	Event	Immediate predecessor
10	_	50	30,40
20	10	60	30,50
30	10	70	60
40	20,30	80	40,70

- (b) Sketch and explain the various errors in drawing a network diagram. 5
- 5. (a) Find the rate analysis per sqm of white washing single coat.

5

- (b) Find the rate analysis per sqm of DPC, 4 cm thick of cement concrete 1:2:4with one coat of bitumen.
- 6. (a) Outline the detailed specification for Asbestos Cement Corrugated sheets. 5
 - (b) Write the detailed specification for second class brick work on lime mortar.

ENTRAL

5

5

- 7. (a) Differentiate between Float and Slack.
 - (b) Findout the quantity of cement and sand required for one square metre of cement plaster (1:6), 125 cm thick.
- 8. Write short notes on any two of the followings:

5×2

- (a) General specification for second class building
- (b) Construction schedules for jobs
- (c) Special repair estimate

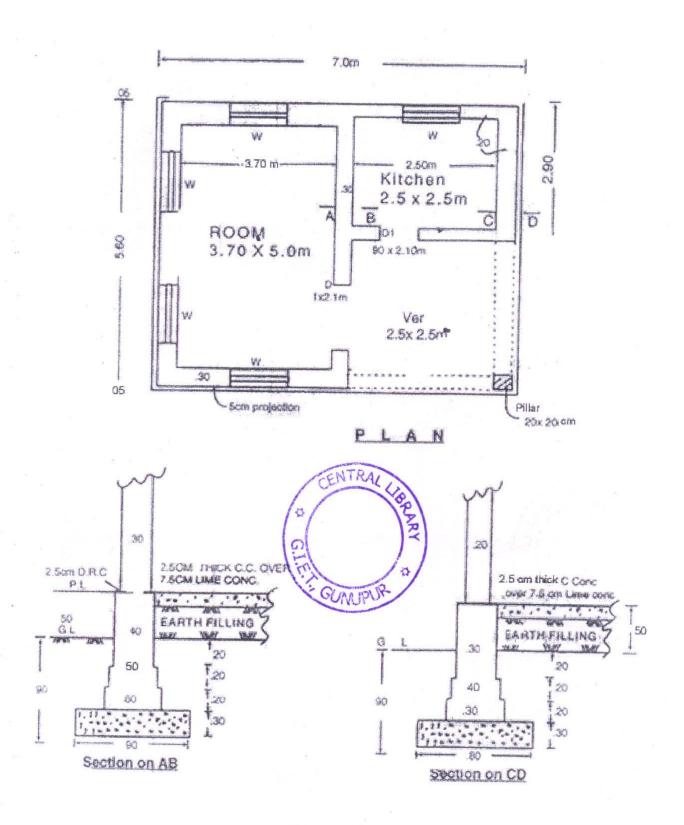
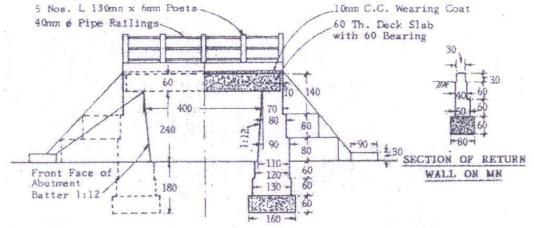
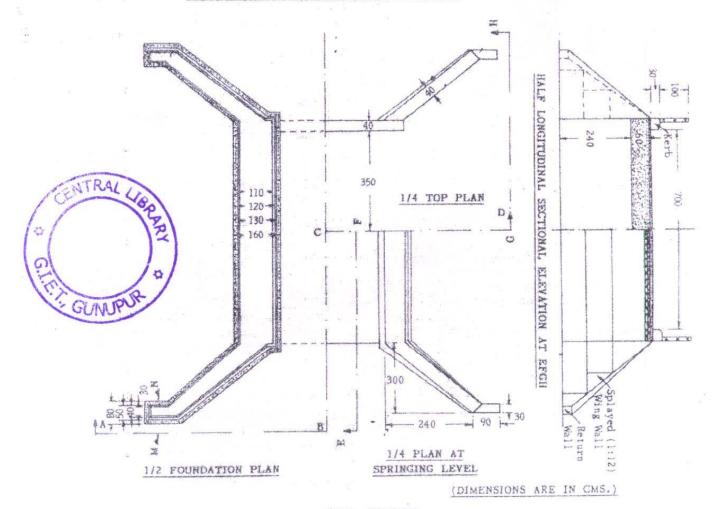


Figure - 1



HALF CROSS SECTIONAL ELEVATION AT ABCD



SLAB CULVERT

Figure - 2