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Total Number of Pages: 3

B.Tech
PECI5405

7th Semester Regular / Back Examination 2016-17
ESTIMATION, COSTING AND PROFESSIONAL PRACTICE

BRANCH: CIVIL

Time: 3 Hours

Max Marks: 70

Q.CODE: Y425

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

Q1 Answer the following questions: (2 x 10)

- What is the difference between preliminary estimate and detailed estimate?
- What are the purposes of approximate estimate?
- How the following items of work are measured?
i) Painting Doors and Windows. ii) Brick work in super structure
- What are the basic data to be known before analysing the rate of a particular item?
- How are general specifications different from detailed specifications?
- Calculate the requirement of labour for 100 cu ft cement concrete work.
- What are the resources required for the completion of any project?
- What is project scheduling?
- Distinguish between an activity and an event.
- What is slack time?

Q2 Estimate the quantities of following items of work for a building as shown in Fig 1

- Earthwork excavation in foundation (5)
- 2.5cm Damp proof course (5)

Q3 Estimate the following quantities of a 1.20m span slab culvert as shown in Fig-2.

- 1:4:8 Cement concrete in foundation. (5)
- I-class brickwork in foundation and superstructure. (5)

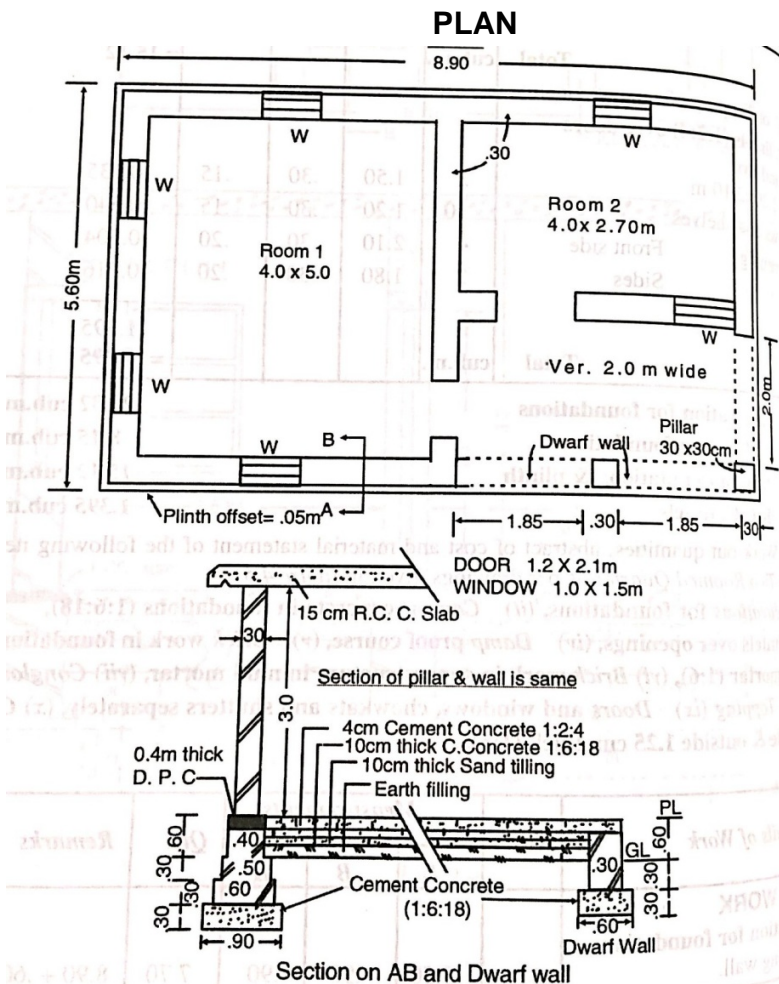
Q4 Draw the network corresponding to the following and determine (10)

- The critical Path
- The total, free and independent floats for each of the activities.

Activity	1-2	1-3	1-4	2-3	2-6	3-5	3-6	4-5	5-6
Duration(days)	4	5	15	11	6	5	7	2	2

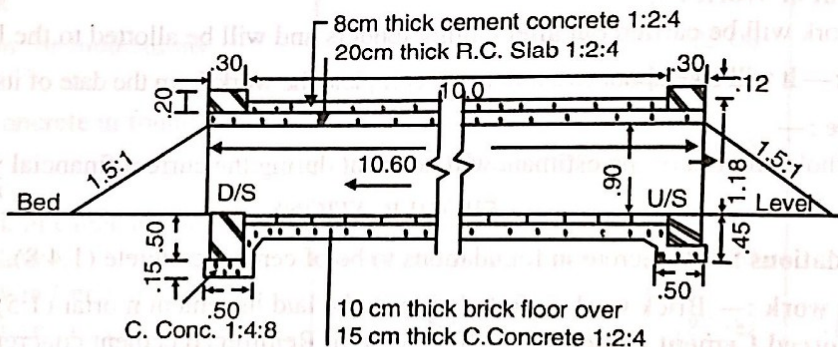
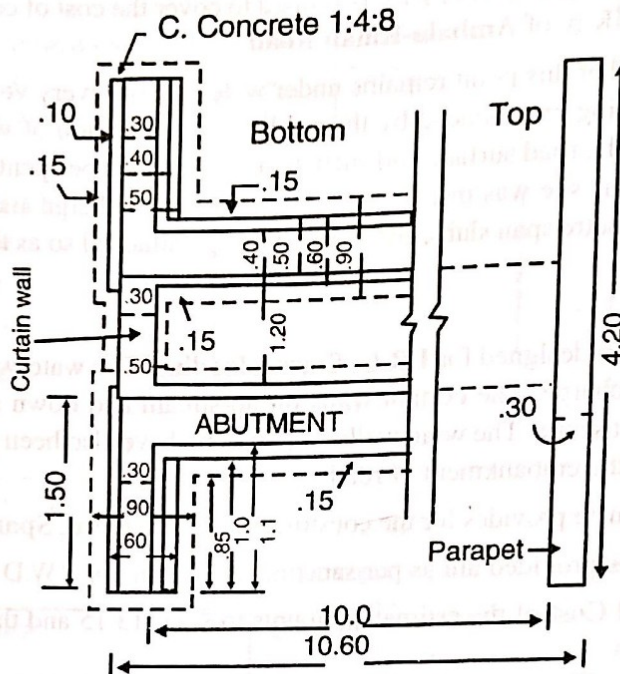
Q5 a) Find out the rate analysis of cement concrete with 4cm gauge stone (5)

- basalt, coarse sand and cement in 4:2:1 proportion.
- b) Give the rate analysis of Random Rubble stone masonry in super structure in cement sand mortar in 1:6 proportion. (5)
- Q6 a) Write the detailed specification for Plastering with Terrazo finish. (5)
 b) Outline the detailed specification for Random Rubble Masonry. (5)
- Q7 a) What is float and how is it useful in a CPM network? (5)
 b) What is three time estimates of PERT activity? (5)
- Q8 Write short answer on any TWO: (5 x 2)
 a) Degree of accuracy in Estimating
 b) General specification of a second class building
 c) Errors in a network
 d) CPM



1.2 Metre span slab culvert

PLAN



Longitudinal Section

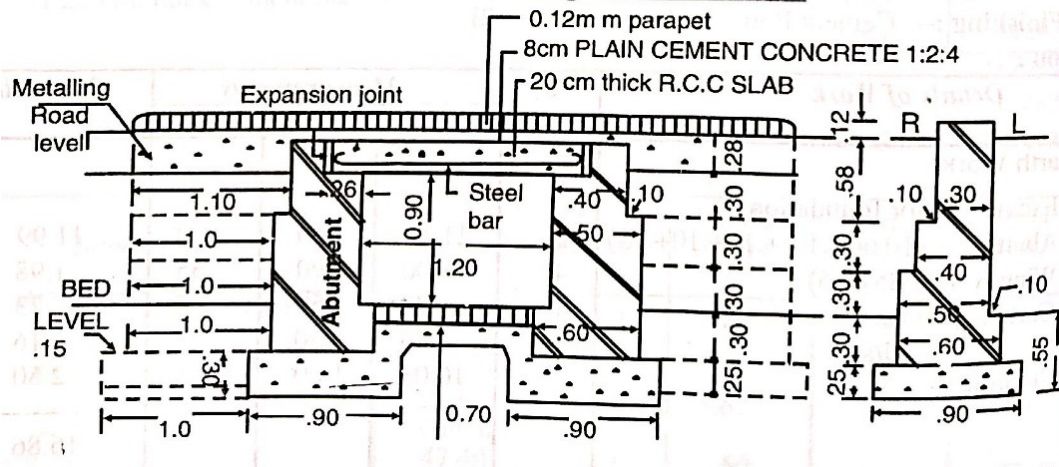


Fig - 2