

**III B.Tech II Semester Supplementary Examinations,
November/December 2005
ESTIMATING AND CONTRACTS
(Civil Engineering)**

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. Write down the various items of work involved in the construction of class 'D' residential building. [16]
2. (a) Distinguish between out-to-out method and Centre line method. State the merits of each.
- (b) The following figure 1 shows the plan and section of a masonry foundation. Determine the length of long and short walls at each footing by out-to-out and in-to-in method
 Length of long wall from centre to centre of wall = 4.3m
 Length of short wall from centre to centre of wall = 3.3m [8x2=16]

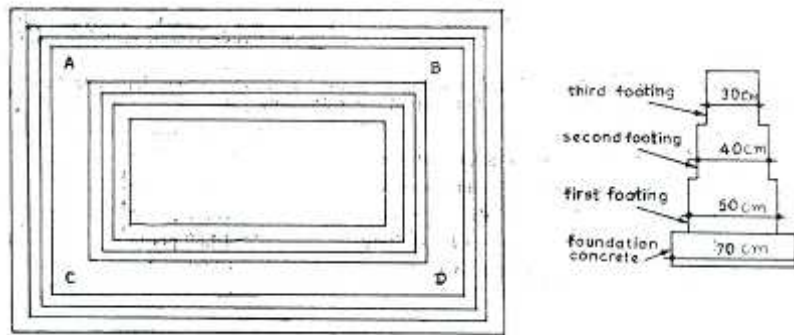


Figure 1:

3. Mention the items required for preparing detailed estimate of a sloped roof single room residential building having a front verandah. [16]
4. (a) What is meant by Analysis of Rate? Mention various purposes of Rate Analysis.
- (b) List out the factors affecting Rate Analysis. State the requirements of Rate Analysis. [8+8]
5. Give rate analysis for:
 - (a) 100 sq.m. of 2.0cm thick c.c. 1:3:6 flooring
 - (b) 10 cu.m. of brick masonry in 1:6 cement mortar
 Assume suitable data and work out the rates [16]

6. What is the main object of making conditions of contract? Group various conditions on which contract can be prepared. [16]
7. Distinguish between detailed specifications and general specifications. Justify your answer with the help of an example. [16]
8. Write down the detailed specifications of I class brickwork in cement mortar. [16]
